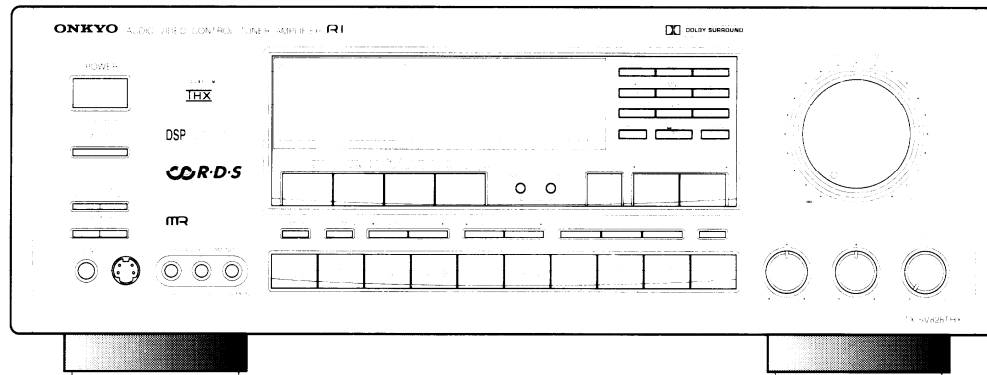


Audio Video Control Receiver

TX-SV828THX

Instruction Manual



CONTENTS

Precautions	4	Receiving RDS (European model only)	35
Supplied accessories	4	Entering station names	37
Explanation	5	Recording a source	38
Before using this unit	6	Using the Surround Modes	42
Speaker placement	7	Basic operation of Surround play	42
Control positions and names	8	Using the Dolby Pro Logic Surround Mode	43
Making system connections	10	Using the Home THX Cinema Surround Mode	44
Making antenna connections	16	Using the Theater Surround Mode	45
Connection for Multiple-Room		Using the Hall, Live, Arena and Studio	
Remote Control	18	Surround Modes	46
Learning Remote Control Codes	20	Using the External Decoder Mode	47
Using the On-screen display function	22	Using a Monaural Source with the	
Listening to your favourite source	24	By-Pass Mode	48
TX-SV828THX Parameter	27	Explanations	49
System setup (for all surround modes)	28	Multi-Room Remote Control	51
Using the tuner	33	Trouble shooting guide	53
		Specifications	54

Thank you for your purchase of the Onkyo A/V Receiver.

Please read this manual thoroughly before making connections and turning on the power.

Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new A/V Receiver.

Please retain this manual for future reference.

Features

■ THX® Certified Receiver

Certification by Lucasfilm means the TX-SV828THX has proven itself capable of reproducing cinema sound as the director intended. This requires special processing for "Re-equalization™," "Decorrelation™," and "Timbre Matching™," as well as refined power amp circuitry to minimize distortion and noise, while maximizing stability and dynamic power.

■ Plentiful Power for Five Channels

Discrete power amp circuitry delivers 100W per channel stereo, or 90W each for front left, right, and center channels plus 50W each for left and right surround channels.

■ 24-Bit Motorola® DSP for 7-Mode Digital Surround

With its 24-bit data path and ultra-fast speed, this Motorola DSP chip attains incredibly detailed surround sound results. You'll hear the added realism in all seven exciting digital surround modes: Dolby Pro Logic, Home THX Cinema, Dolby Pro Logic Theater, Hall, Live, Arena, and Studio.

■ Clean Power Supply with WB Transformer

This highly efficient new transformer design helps preserve musical details by reducing flux leakage and hum.

It features continuous, gap-free, grain-oriented silicon steel core construction that wraps around the coil bobbins which are specially constructed to meet strict IEC742 standards.

■ Intelligent Power Management (IPM)

When you turn on your TV, IPM automatically activates AV system power and selects Video-1 as the source input.

■ Programmable Universal **RI** Remote Control

Onkyo's **RI** (Remote Interactive) commands are preprogrammed for major function of Onkyo components bearing the **RI** symbol. In addition, the remote can be "trained" to transmit the infrared remote control codes for almost any AV component.

- On-Screen color displays
- 8 Audio and 4 video inputs
- Video input on front panel
- 7 Large binding posts
- 30 Random FM/AM presets and 3-group classification

FOR EUROPEAN MODEL

- This apparatus complies with requirements of EC directive 87/308/EEC.

FOR USA MODEL

Note to CATV system installer:

- This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

FCC INFORMATION FOR USER

CAUTION:

Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between other equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which other receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FOR CANADIAN MODEL:

(POUR LE MODELE CANADIEN)

- For models having a power cord with a polarized plug.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSION FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

- Sur les modèles dont la fiche est polarisée.

ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

- L'INTERFERENCE, RADIO ELECTRIQUE GENEREES PAR CET APPAREIL NUMERIQUE DE TYPE B NE DEPASSE PAS LES LIMITES ENONCEES DANS LE REGLEMENT SUR LES PERTURBATIONS RADIO ELECTRIQUES, SECTION APPAREIL NUMERIQUE, DU MINISTERE DES COMMUNICATIONS.

Declaration of Conformity

We, ONKYO EUROPE
ELECTRONICS GMBH
INDUSTRIESTRASSE 18/20
82110 GERMERING,
GERMANY



declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN55013, EN55020, EN60555-2, EN60065

GERMERING, GERMANY

K. KOBAYASHI

ONKYO EUROPE ELECTRONICS GMBH

“WARNING”

“TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.”

CAUTION:

“TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.”



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



- The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

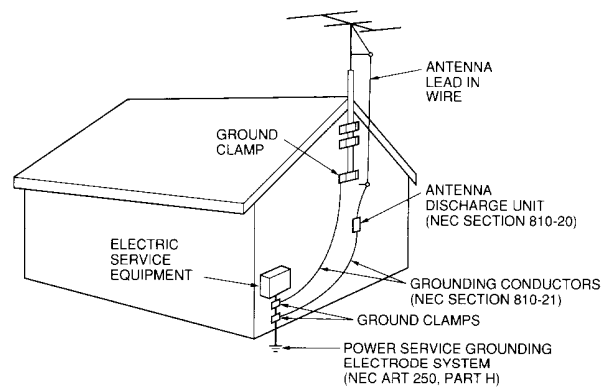
Important safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Water and Moisture** – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. **Carts and Stands** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Polarization** – If the appliance is provided with a polarized plug having one blade wider than the other, please read the following information: The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the plug.
12. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, especially near plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** – The appliance should be cleaned only as recommended by the manufacturer.
14. **Power Lines** – An outdoor antenna should be located away from power lines.
15. **Nonuse Periods** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
19. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 73.1.

PORTABLE CART WARNING



FIGURE 73.1:
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL
ELECTRICAL CODE



NEC – NATIONAL ELECTRICAL CODE

S2898A

Precautions

1. Warranty Card

The serial number is written on the rear panel of this unit. Copy the serial number and model number onto your warranty card and keep it in a safe place.

2. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

3. AC Fuse

The fuse is located inside the chassis and is not user-serviceable.

If power does not come on, contact your Onkyo authorized service station.

4. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

5. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

- Some models are designed for use only with the power supply voltage of the region where they are sold.

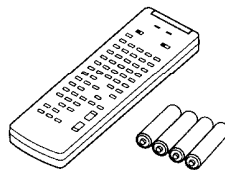
European and Australian models: AC 230V, 50Hz

U.S.A. and Canadian models: AC 120V, 60Hz

● Voltage Selector (Rear Panel)

Worldwide models are equipped with a voltage selector to conform to local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit. Models without a voltage selector can only be used in areas where the power supply is the same as that of the unit.

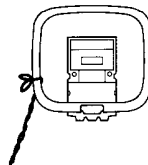
Supplied accessories



- 1 Remote control
4 Batteries
(size AAA, R03, or UM-4)



- 1 Remote control cable



- 1 AM loop antenna



- 1 T-shaped FM antenna

Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.

The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby", the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

Manufactured under license from LUCASFILM LTD. U.S. patent numbers 5,043,970; 5,189,703 and 5,222,059. Foreign patents pending. LUCAS FILM and THX are registered trademarks of LUCASFILM LTD.

Explanation

Surround System

DOLBY PRO LOGIC Surround DOLBY SURROUND

Many motion pictures produced have been released in the 4-channel "Dolby Stereo" sound, with music, dialogue, and panned effects coming from the 3-channel front soundstage, and surround effects and ambience emanating from the sides and rear of the theater.

The motion picture masters are used for production of stereo VHS, VHS-Hi-Fi, Beta Hi-Fi, and stereo laser discs that you can buy or rent at your video store. The TX-SV828THX incorporates the Digital Dolby Pro Logic Surround Circuit, which is designed to decode the four channel the audience experience found in DOLBY STEREO movies. Dolby Pro Logic Surround is capable of creating a multi-dimensional soundstage, but with the increased channel separation it gives a far greater sense of "movement" and sound localization. Just like in the theater, the addition of the active center channel ensures that all audience members hear dialogue coming from its on-screen sources regardless of seating position.

HOME THX CINEMA Surround THX

By using video tapes and laser discs with the  DOLBY SURROUND trademark, you can recreate in your own living room the feeling of watching a movie in a top quality theaters.

The THX cinema mode uses Dolby Pro Logic Surround decoding, followed by additional audio processing designed by the film sound engineers of the Lucasfilm THX program.

For best results, we suggest using the following ONKYO sound system: Front left/right/center speakers: Model No. THXS-1 and two Active type subwoofer: Model No. THXPS-1. (May not be sold in some areas.)

THEATER Surround

There are many surround speakers in an actual theater. The THEATER Surround mode uses Dolby Pro Logic Surround decoding, followed by additional audio processing designed by ONKYO. Use this mode for creating a theater atmosphere. This mode is suitable for playback of media recorded in the Dolby Surround format.

HALL Surround

This mode is especially suitable for media already having a substantial amount of reverb sound such as classical music. The atmosphere of a concert hall can be simulated.

Live Surround

Reproduces the feeling of a live performance.

ARENA Surround

This mode recreates the feel of listening to a pop concert in a domed stadium.

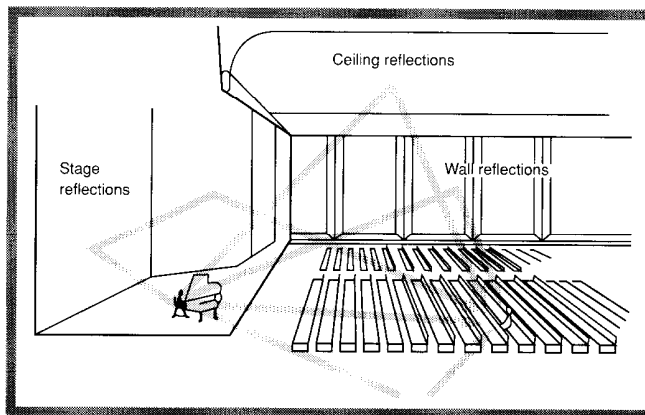
STUDIO Surround

This mode is good for studio recordings that may have few reverb sounds such as pop and jazz.

Since the TX-SV828THX is equipped with Front amplifiers, Center amplifier and Surround amplifiers, Dolby Pro Logic, Home THX Cinema, Theater, Hall, Live, Arena and Studio Surround effects can be produced. You can enjoy the feeling of a movie theater, concert hall or ball game ground in your own room.

DSP (Digital Signal Processor)

The DSP converts the musical signal into digital form and produces reflected sound from the digital signal. This is applied to the musical signal to yield an effect approaching that of a live performance.



NOTES:

- The concert hall effect is produced from the reflections and reverberations contained in the original recording. These are converted into reflected sound that is reproduced from four directions. Thus, in some cases an unnatural impression can be conveyed if there are too few reflections in the recording or if the effects in the original recording were produced artificially.
- The concert hall effect is not merely an artificial reverberation unit, but a sophisticated effect that spreads existing reverberation around.

Multiple Room Remote System (MRX)

Xantech's Multi-Room System is available in the U.S. and Canada, while Onkyo's Multi-Room System is available in all other countries. (Refer to page 18-19 for details.)

1. U.S.A., and Canadian models

- The following equipment (manufactured by Xantech and sold separately) is essential for using the Multi-Room System:

- * Dinky Link: Model No. 480B-009 or
- J-Box Receiver: Model No. 780-10
- * Connecting Block: Model No. 789-40
- * 120VAC Power Supply: Model No. 781C-00

The following accessories are necessary for operation of components not manufactured by Onkyo:

- * Hi-Current Power Supply: Model No. 782-00
- * Mini-Emitter: Model No. 282-00

- Use the secondary remote control model indicated below for operation of the system from the sub-room.

- * Secondary Remote Control For Multi-Room Remote System: Model No. RC-MR1H

- Consult your nearest Onkyo Service Center with any questions concerning Xantech's Multi-Room System.

2. Models other than U.S.A., and Canadian models

- The following equipment (manufactured by Onkyo and sold separately) is essential for using the Multi-Room System:

- * Sensor Unit: Model No. HR-10

The following accessories are necessary for operation of components not manufactured by Onkyo:

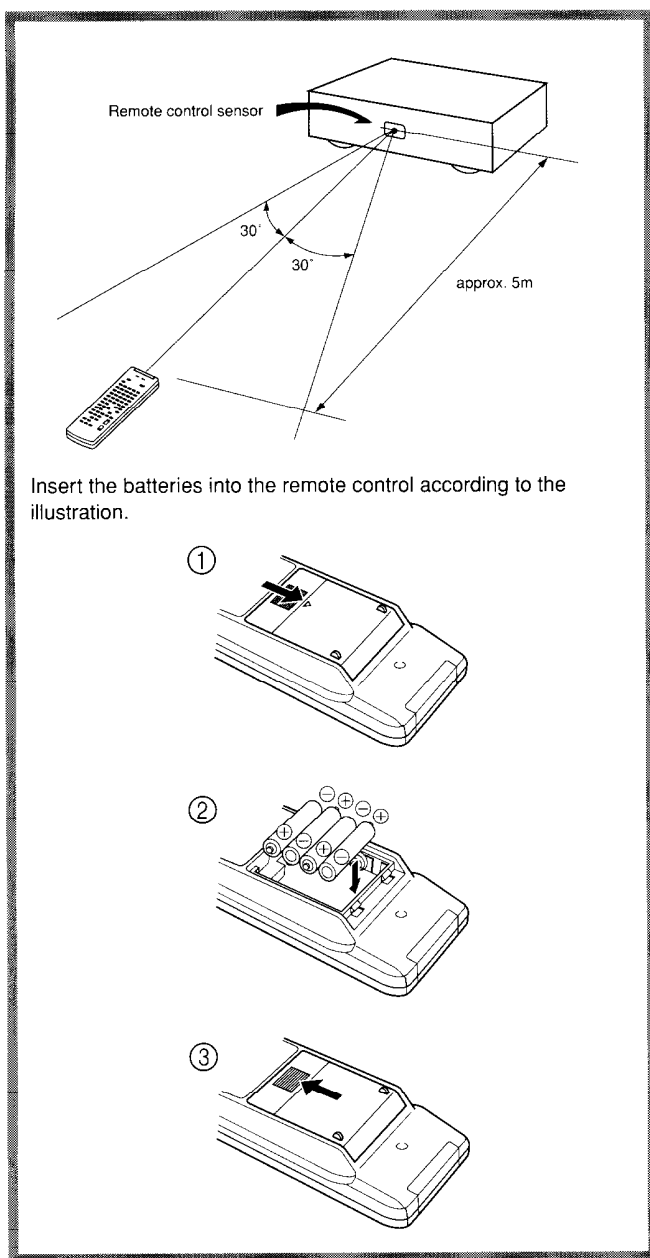
- * Remote Emitter: Model No. HE-50(AC)
- * Remote Emitter Head: Model No. HE-10

- Use the secondary remote control model indicated below for operation of the system from the sub-room.

- * Secondary Remote Control For Multi-Room Remote System: Model No. RC-MR1H

- Consult your nearest Onkyo Service Center when replacing your Onkyo Multi-Room System with a Xantech Multi-Room System.

Before using this unit



Using the remote control

The following information will help you get optimal use from the remote control.

- Place this unit away from direct bright light, which can prevent proper operation of the remote control.
- Make sure audio rack doors do not have tinted glass. If this unit is placed behind such a door, this may prevent proper remote control operation.
- Using other remote controls in the same room as this unit's remote control may cause interference.

Loading the batteries

Remove the battery compartment cover by opening it as shown in the illustration. Load four R03 (UM-4) AAA size batteries into the RC-307M with the plus (+) and minus (-) terminals positioned as indicated by the diagram inside the battery compartment and close the cover.

- When the batteries lose their power, the indicator on the remote control will flash when any button is pressed.
- Remove dead batteries immediately to avoid corrosion damage.
- To avoid potential corrosion damage, never mix old batteries with new ones.
- Learned codes are not lost even when the batteries are replaced. They may be lost, however, if battery replacement is not completed within an hour. In this case, the unit must learn the codes again.
- The manganese batteries supplied with this unit have a service life of approximately six months, depending on frequency of usage.
- The TX-SV828THX comes equipped with R03 (UM-4) AAA manganese batteries, but we recommend that long-life alkaline batteries LR03 (AM-4) AAA be used when replacing the batteries.

Speaker placement

Placing the speakers for Surround effects

Speaker placement plays an important role in the reproduction of Surround sound. The manner in which the speakers are placed varies depending on the size of the room and the wall coverings used in the room. The following shows an example of a layout for standard speaker placement. Refer to the example for placing the speakers appropriately in order to experience the best of Surround sound.

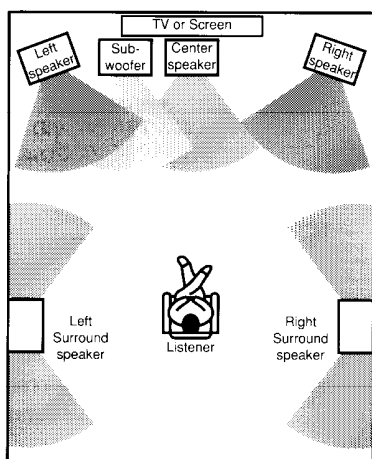
At a minimum for Surround sound reproduction, two Front speakers and two Surround speakers are required.

- The TX-SV828THX is capable of driving 2 speaker systems (A/B).
- The subwoofer output of the TX-SV828THX is a line level out.

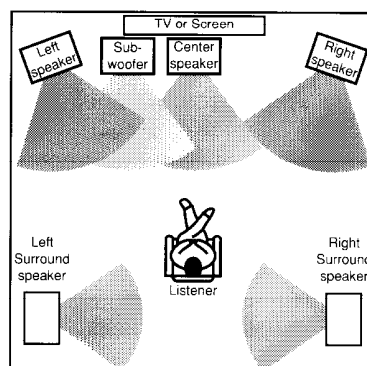
THX SPEAKER SYSTEM

- Use speakers approved by LUCASFILM THX.
- Use left, right and center speakers placed at the same height and aim them toward the seated ear height position.
- Use left and right surround speakers placed above 1m (3 feet) the listener's ear level, and generally to the sides of the listeners.
- Since sound emanates from the front and rear of the surround speakers, listeners will hear specious sounds reflected from surfaces in the room.
- Other surround speaker locations may also be acceptable as long as the null is pointed toward the listening area.
- Place the subwoofer for smoothest bass in the listening room.

Refer to the instruction manual included with your speakers for more details.



OTHER SPEAKER SYSTEMS



Center speaker mode

Because the Center Speaker plays such an important part in Surround, there are three different modes for it, depending on its size.

Large/THX: Use when center speaker is a large, wideband type, or when THX-certified Front speakers are used, in conjunction with a subwoofer.

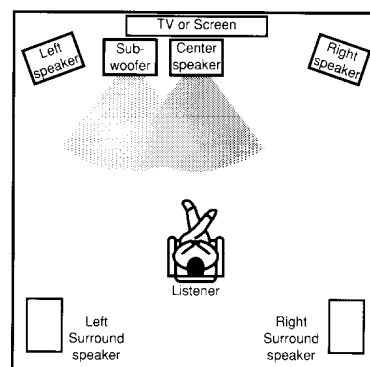
Small: Use when the center speaker is small and has limited bass signal handling. In this mode, sounds under 100Hz are split out to the left and right speakers.

NONE: When no center speaker is used. The center channel signal is split between the Left and Right speakers. Producing similar result to that of a center speaker.

When the STEREO/MONO setting is set to MONO

ON: The monaural sound will come from the center speaker.

NONE: A monaural sound will come from the left and right speakers.



Placing a Subwoofer speaker

To enjoy powerful bass sounds, install a subwoofer with a built-in power amplifier. The placement of the Subwoofer does not affect the final quality of the sound image too much, so you can install it more with the room layout in mind.

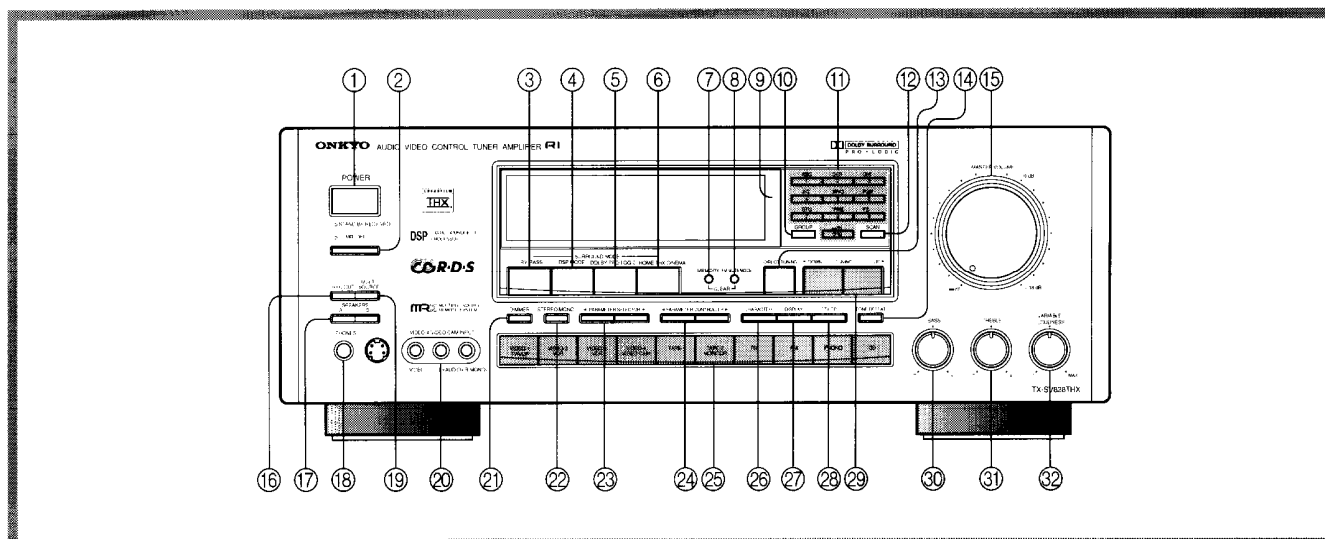
To especially enjoy A/V surround, a subwoofer or two subwoofers can bring out the best performance of Dolby Pro Logic and HOME THX Surround. Since ONKYO's THXPS-1 subwoofer uses two subwoofer speakers, place one under the left speaker and one under the right speaker at the front of the room. When using this system in a room larger than 3000 ft³, connect two THXPS-1 subwoofer pairs (four cabinets).

Two THX PS-1 systems are required for full bass signal output level.

Control positions and names

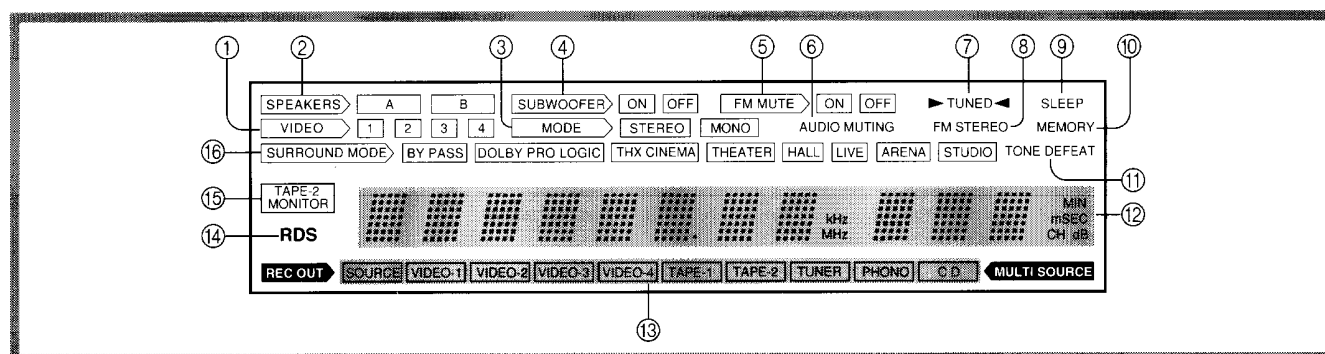
For more information about buttons or controls, turn to the page number listed in the brackets after each item.

Front panel



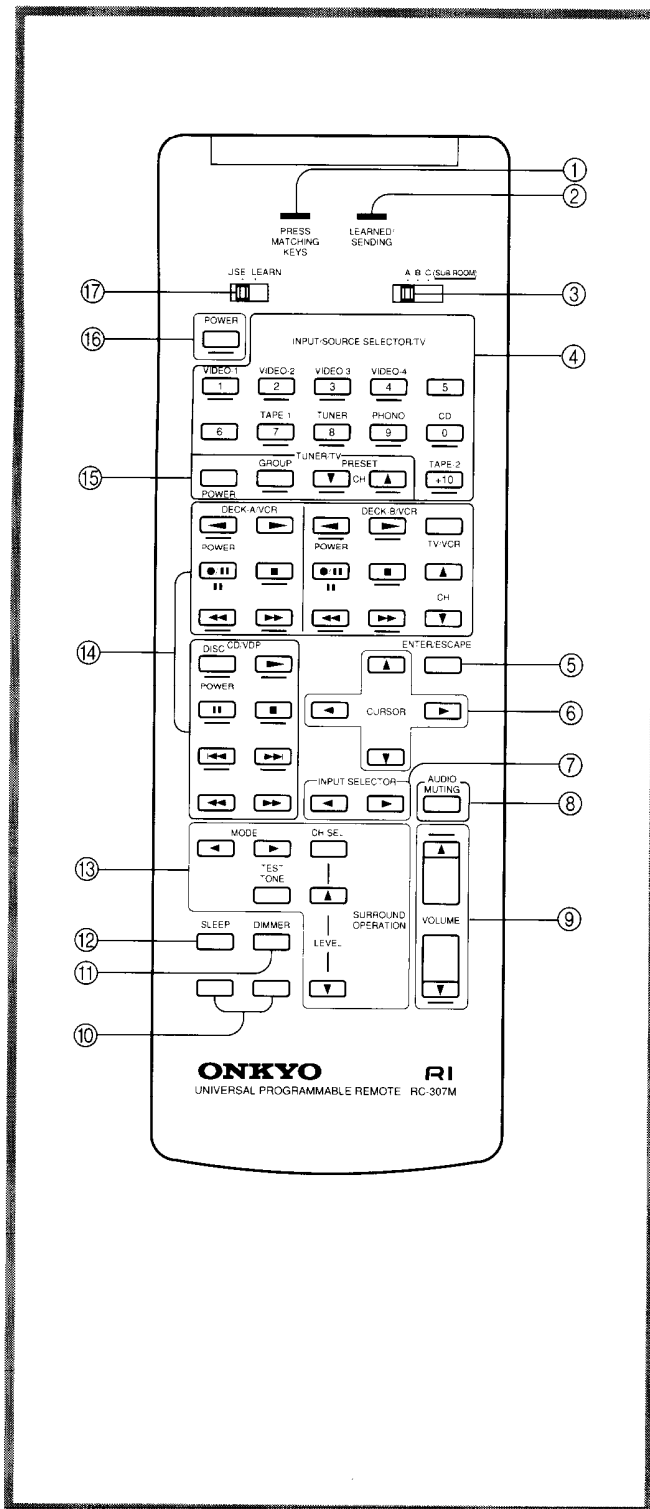
- 1 Power button and stand-by received indicator (POWER) [24, 26]
- 2 MR off button (MR OFF) and indicator [38, 51]
- 3 By-Pass button (BY-PASS) [42, 48]
- 4 DSP mode button (DSP MODE) [42, 45, 46]
- 5 Dolby Pro Logic button (DOLBY PRO LOGIC) [42, 43]
- 6 HOME THX CINEMA button [42, 44]
- 7 Memory button (MEMORY) [34]
- 8 FM muting/mode button (FM MUTE/MODE) [33, 34]
- 9 Remote control sensor [6]
- 10 Group button (GROUP) [34, 37]
- 11 Number buttons (1 to 9, 0/10) [33, 34-37]
- 12 Scan button (SCAN) [34, 36]
- 13 Direct access tuning button (DIRECT TUNING) [33]
- 14 TONE DEFEAT button [24]
- 15 Volume control knob and indicator (MASTER VOLUME) [24]
- 16 Recording out button (REC OUT) [38-41]
- 17 Speaker selector buttons (SPEAKERS A/B) [24]
- 18 Headphone jack (PHONES) [25]
- 19 Multi-source button (MULTI SOURCE) [51]
- 20 VIDEO-4 input jack (VIDEO-4/VIDEO CAM INPUT) [11]
- 21 Dimmer button (DIMMER) [26]
- 22 STEREO/MONO button [48]
- 23 Parameter selector buttons (PARAMETER SELECTOR) [28, 45, 46, 48]
- 24 Parameter controller buttons (PARAMETER CONTROLLER) [28, 45, 46, 48]
- 25 Input selector buttons [24]
Audio selectors (CD, PHONO, FM, AM, TAPE-1, TAPE-2 MONITOR)
Video selectors (VIDEO-1 TV/VDP, VIDEO-2 VCR, VIDEO-3 VCR, VIDEO-4 VIDEO CAM)
- 26 Character button (CHARACTER) [37]
- 27 Display button (DISPLAY) [36]
- 28 PTY/TP button (PTY/TP) [36] (European model)
- 29 Tuning selector buttons (DOWN, UP) [33, 36]
- 30 Bass control knob (BASS) [24]
- 31 Treble control knob (TREBLE) [24]
- 32 Variable Loudness control knob (LOUDNESS) [24]

Display



- 1 Video input selector indicators
- 2 Speaker selector indicators
- 3 Stereo/mono mode indicator
- 4 Subwoofer on/off indicator
- 5 FM muting on/off indicators
- 6 Audio muting indicator
- 7 Tuned indicator
- 8 FM stereo indicator
- 9 Sleep indicator
- 10 Memory indicator
- 11 Tone defeat indicator
- 12 Multi function display
Frequency / input selector / character / Preset station / sleep timer / multi-source volume level / delay time / center, rear volume level
- 13 Recording out / Multi-source indicators
- 14 RDS indicator
- 15 Tape-2 monitor indicator
- 16 Surround mode indicators

Control positions and names



Universal Programmable Remote Control (RC-307M)

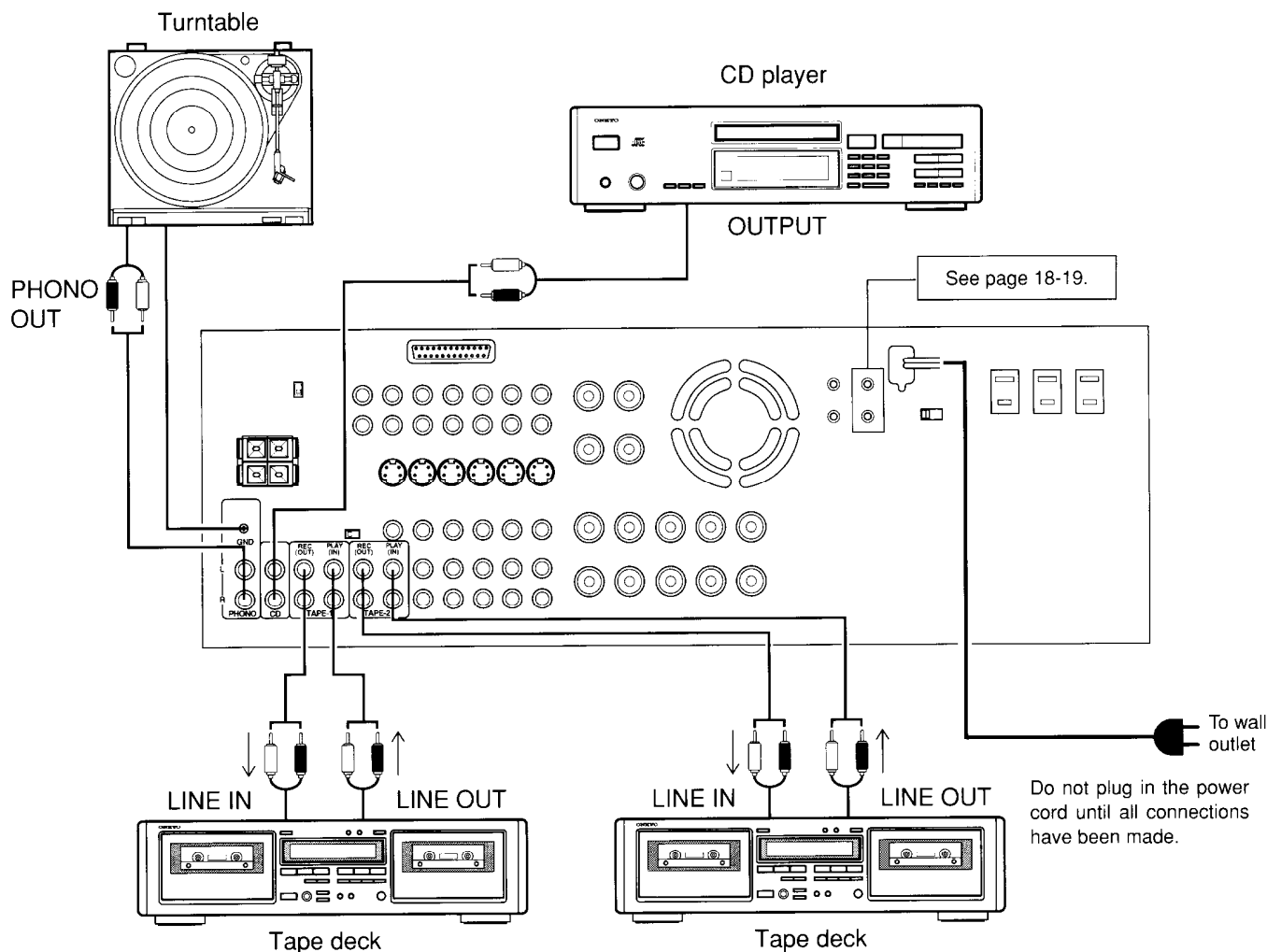
NOTE:

The buttons with the blue lines printed under them are used when the A/B/C Selector Switch is set to C(SUB ROOM).

- ① Press matching buttons indicator (PRESS MATCHING KEYS) [20, 21]
- ② Learned/Sending Indicator (LEARNED/SENDING) [20, 21]
- ③ A/B/C selector switch (A/B/C (SUB ROOM)) [20, 21, 51]
- ④ Input selector buttons (VIDEO 1 to 4, PHONO, CD, TUNER, TAPE-1, TAPE-2) [24]
Two buttons marked 5 and 6 in this area cannot be used to operate TX-SV828THX.
* This can change a TV channel after learning it.
- ⑤ On screen enter/escape button (ENTER/ESCAPE) [22]
- ⑥ On screen cursor buttons (CURSOR ▲, ▼, ◀, ▶) [22]
- ⑦ Input selector buttons (INPUT SELECTOR) [24]
- ⑧ Audio muting button (AUDIO MUTING) [26]
- ⑨ Master volume ▲/▼ buttons (VOLUME) [24, 51]
- ⑩ Spare learning buttons [20]
- ⑪ Dimmer button (DIMMER) [26]
- ⑫ Sleep button (SLEEP) [26]
- ⑬ Surround operation buttons [42-50]
(CH SEL button, SURROUND MODE buttons, TEST TONE button, Level Control buttons)
- ⑭ CD, DECK-A/B operation buttons
* This can operate a VDP and two VCRs after learning it. [20, 21]
- ⑮ Tuner/TV operation buttons (GROUP, PRESET) [33, 34]
* This can operate a TV after learning it.
- ⑯ Power button (POWER) [24]
- ⑰ Use/Learn selector switch (USE/LEARN) [20, 21]

Audio equipment connections

- On each pair of input jacks, the lower jack (marked R: Red) corresponds to the right channel, and the upper jack (marked L: White) to the left channel.
- Please refer to the instruction manual of each component when making any connections.



A Remote control connections

A cassette tape deck and compact disc player that have the ONKYO **RI** mark can be operated using the accessory remote control with this unit.

Connect a remote control cable to the black jack with the **RI** mark. Never connect it to the green or gray jack with the **MRX** mark. Connect the remote control cable as shown right side to enable remote control operation of other components.

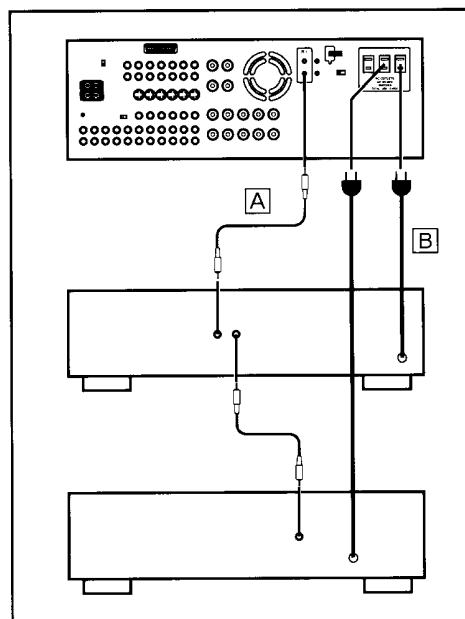
NOTES:

- To enable proper remote control operation, both the **RI** cable and the audio cables must be connected between units.
- This unit's remote control cannot be used to control ONKYO turntables.
- An **RI** remote control cable equipped with a 1/8" (3.5 mm) miniature 2 conductor phone plug is included with this unit and with any other component with the **RI** mark.

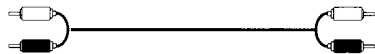
B AC outlet connections

The SWITCHED outlet is switched on and off by the power buttons on the front panel and remote control.

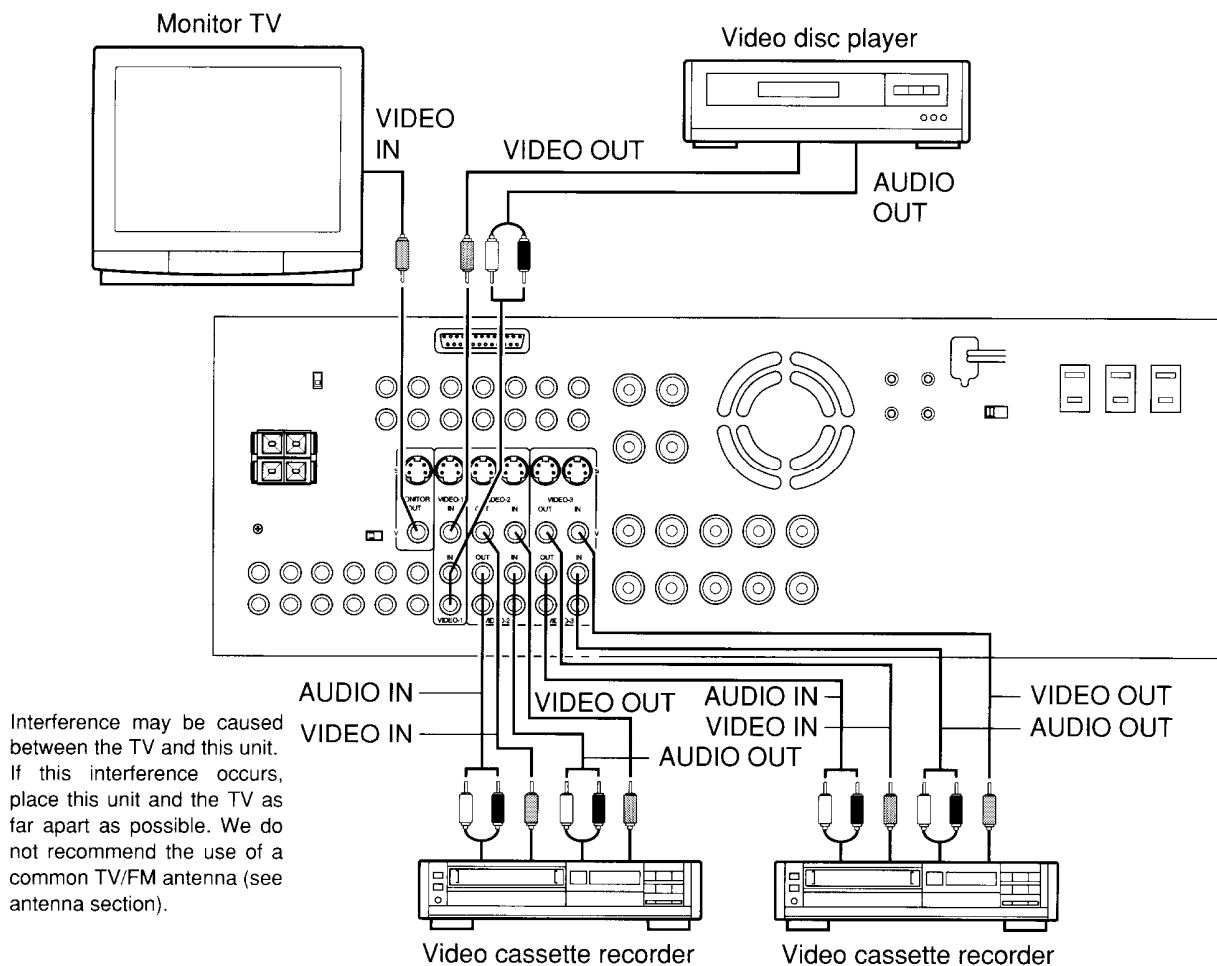
The shape, number and total capacity of the AC outlets may differ according to the model and the area where the unit is purchased. Be careful that other components connected to this unit do not exceed the capacity that is printed on the rear panel above the AC outlets.



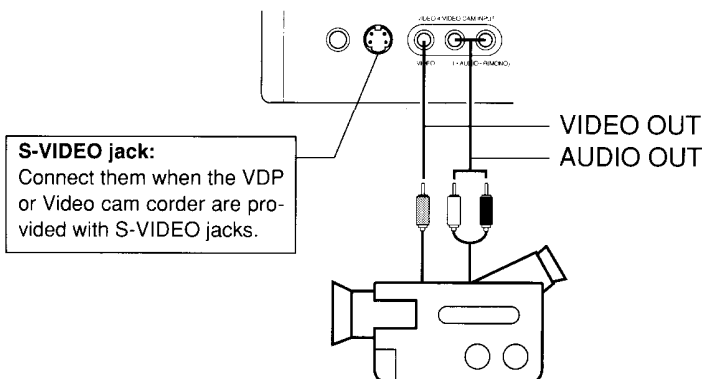
Video equipment connections



- On each pair of input jacks, the lower jack (marked R: Red) corresponds to the right channel, and the upper jack (marked L: White) to the left channel.
- Please refer to the instruction manual of each component when making any connections.



VIDEO-4/CAMCORDER



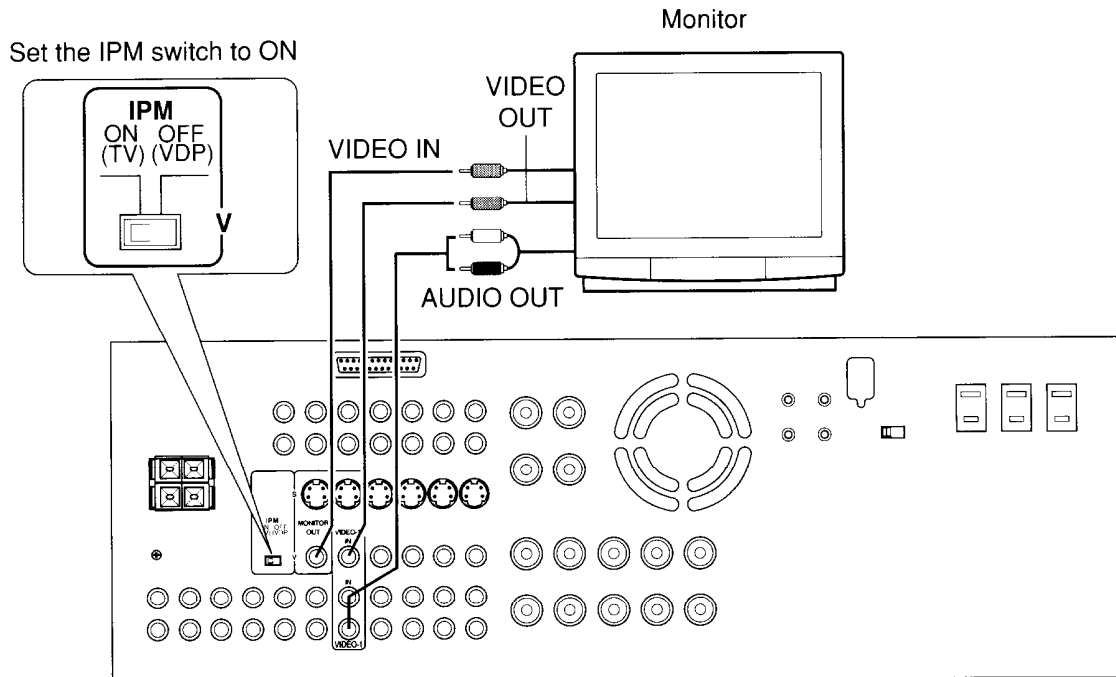
- When using a playback-only VCR, you only need to make the output connections.

NOTE:

When the audio output of the video equipment is monaural, connect to the R audio input jacks.

Video equipment connections

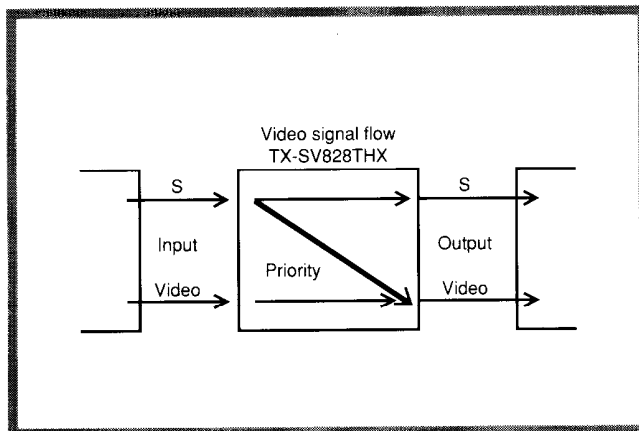
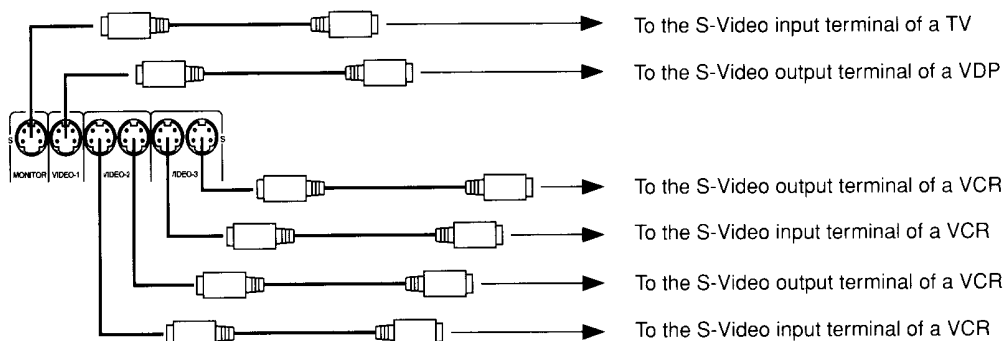
IPM system: The receiver's power is automatically turned on when the TV is turned on. To use this function, connect the units as shown in the diagram.



NOTES:

- This unit will automatically switch on approximately three to five seconds after the TV comes on.
- The IPM function is not operating if the TV screen remains blank, even if the TV is switched on.
- In order to use the IPM function, the TX-SV828THX should be connected to the video input, not the S-Video input, terminal on the TV.

S-VIDEO terminals



Video Input/Output

This unit has S input and S output connectors. A signal input into connector S will be output in both the S connector and the normal video connector. However, a signal input into the normal video connector will be output in only the normal video connector.

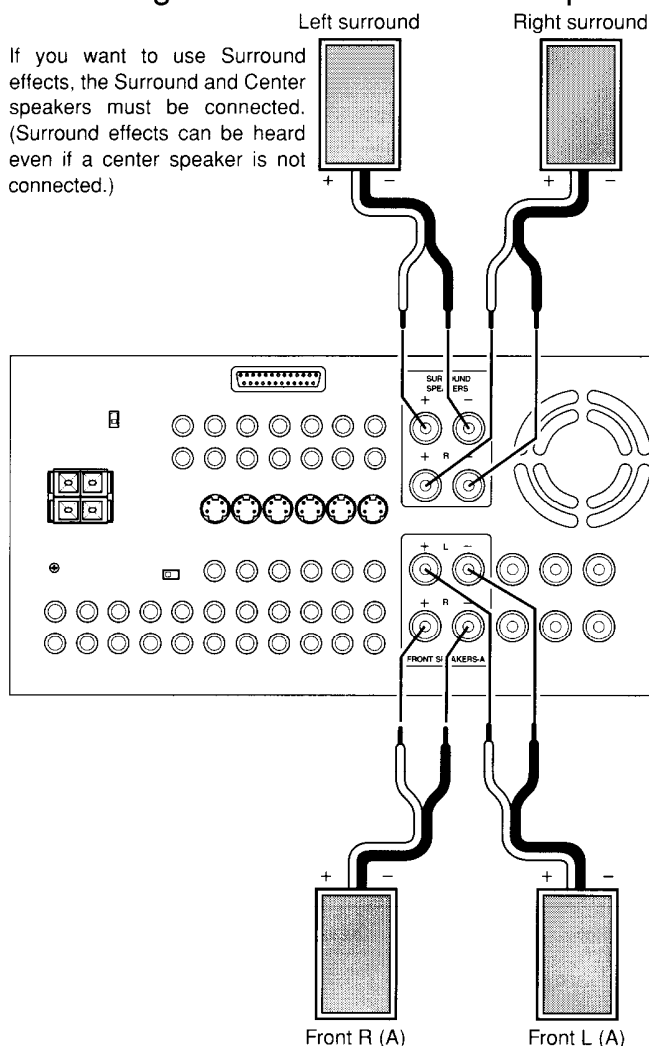
NOTES:

- To use these components, a pin connection must also be made.
- When a video deck or a TV monitor with an S input is connected to both the S connector and the normal video connector, some models automatically select recording or playback via the S connection (S connector input priority).

Speaker connections

Connecting the front and surround speakers

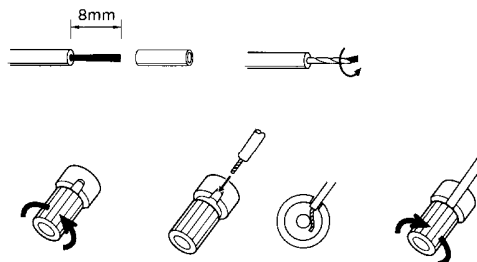
If you want to use Surround effects, the Surround and Center speakers must be connected. (Surround effects can be heard even if a center speaker is not connected.)



Connecting the speaker cables

NOTES:

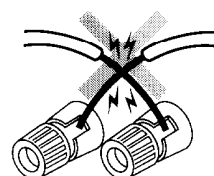
- When using banana plugs, make sure the speaker terminal screws are screwed in firmly before inserting the banana plugs.
- Speaker terminals on European models not banana plug compatible.



NOTE:

To prevent damage to circuitry, never short-circuit the positive (+) and negative (-) speaker wires.

NO



■ “B” terminals

For connection to a second pair of speakers.

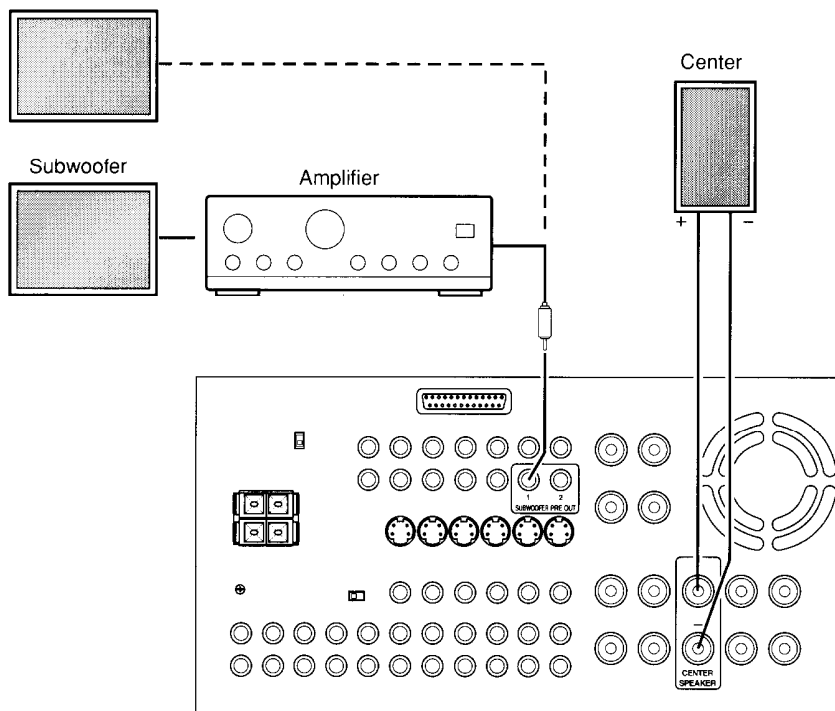
■ Speaker impedance

When only the “A” or only the “B” speakers are connected:

The impedance of the speaker used with this unit must be 6 — 8 Ω .

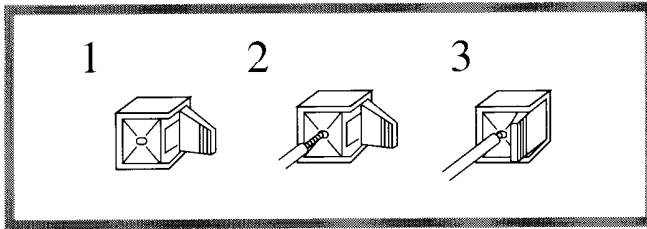
Connecting of center speaker and subwoofer

Active subwoofer



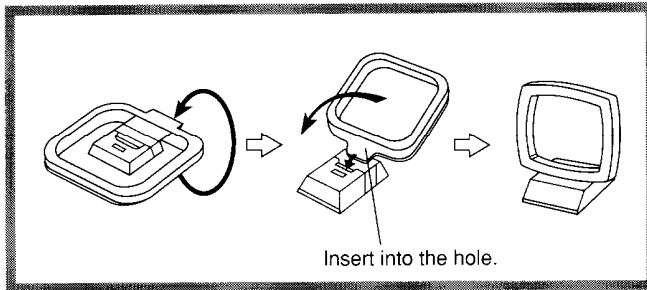
Antenna connections

Connecting the antenna cable



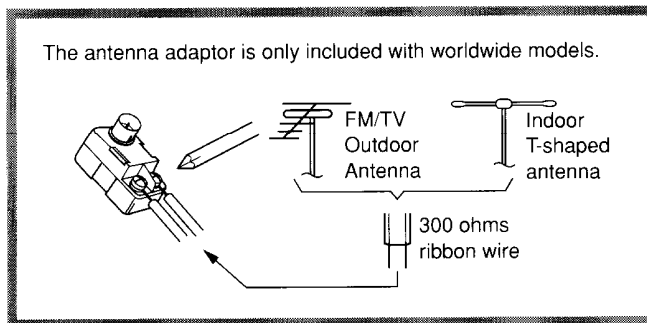
1. Press down the lever.
2. Insert wire.
3. Return the lever.

Assembling the AM loop antenna



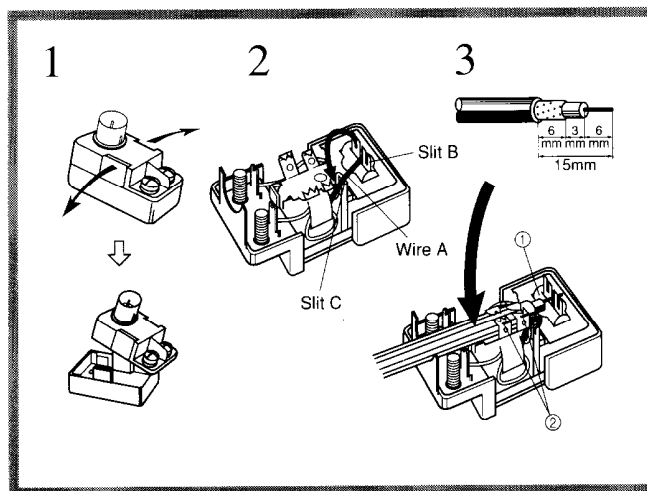
Assemble the loop antenna as shown in the illustration.

Connecting the coaxial cable to the 75/300 ohms adaptor (only worldwide models)



Connecting the T-shaped antenna or 300 ohm ribbon wire to the 75/300 ohm adaptor (Worldwide models)

Loosen the screws and wrap the wire around these screws. Then tighten the screws with a screwdriver



Connecting the coaxial cable to the 75/300 ohm adaptor (Worldwide models)

1. With your fingernail or a small screwdriver, press the stoppers outwards and remove the cover.
2. Remove the transformer wire A from slit B and insert it into slit C.
3. Prepare the coaxial cable as shown in the diagram. Connect the 75/300 ohm antenna adaptor to the coaxial cable

- ① Insert the end of the cable.
- ② Clamp it in place with pliers

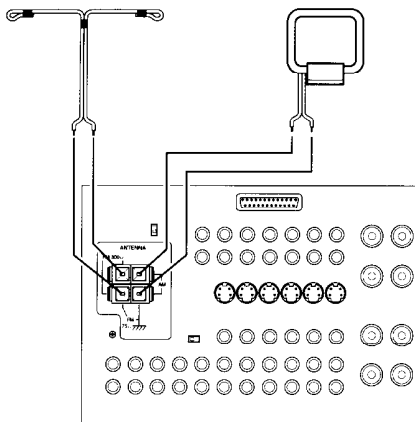
Antenna connections

Connecting the T-shaped FM antenna and the AM loop antenna

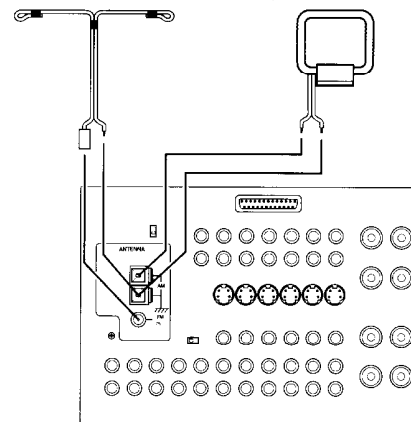
The T-shaped FM antenna is for indoor use only. Extend the antenna and move it in various directions until the clearest signal is received. Fix it with push pins or similar in the position giving the least amount of distortion.

The AM loop antenna is for indoor use only. Set it in the direction and position where you receive the clearest sound. Put it as far as possible away from the main unit, TV set, speaker cables and power cord.

U.S.A and Canadian models



European and Worldwide models

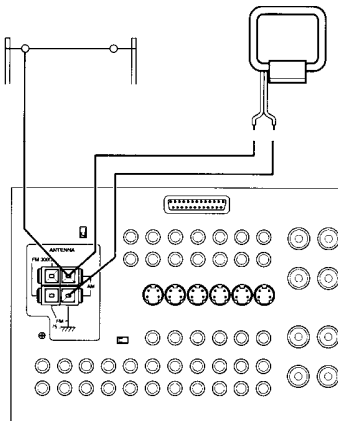


Connecting an AM outdoor antenna

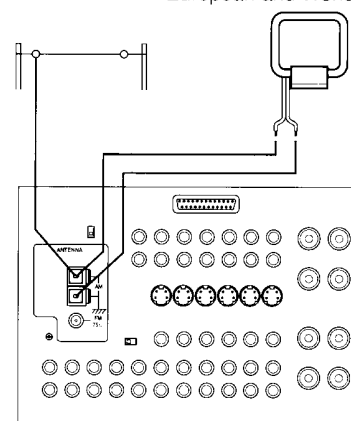
When reception is not satisfactory using the attached AM loop antenna alone, connection of an external antenna is recommended. (Do not remove the AM loop antenna)

The external antenna will be more effective if you stretch it horizontally in a high place above a window or outside.

U.S.A and Canadian models



European and Worldwide models



Connecting an FM outdoor antenna

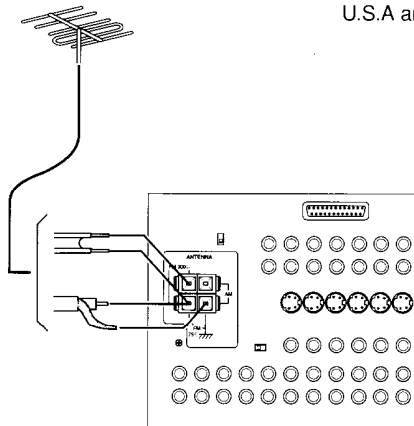
If the reception is not very clear with the attached T-shaped FM antenna, the use of an external antenna is recommended.

Please make sure that you comply with the following considerations regarding the location.

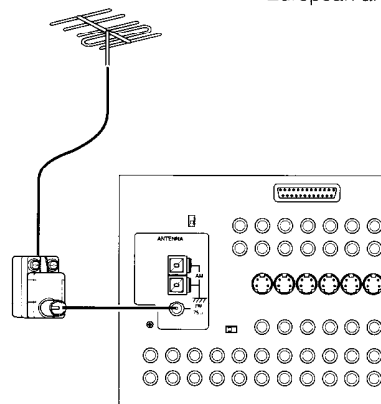
Keep the antenna away from noise sources (neon signs, busy roads etc.)

It is dangerous to put it close to power lines, so keep it well away from power lines, etc.

U.S.A and Canadian models

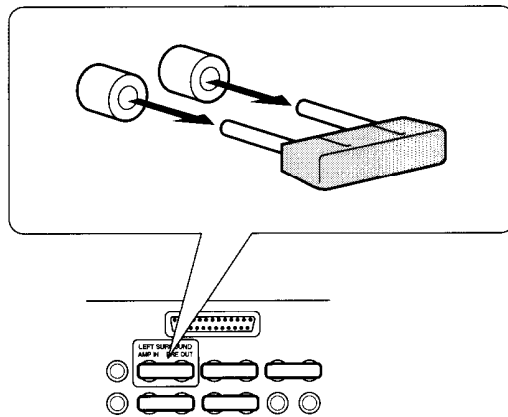


European and Worldwide models



Optional amplifier connections

Remove the jumper



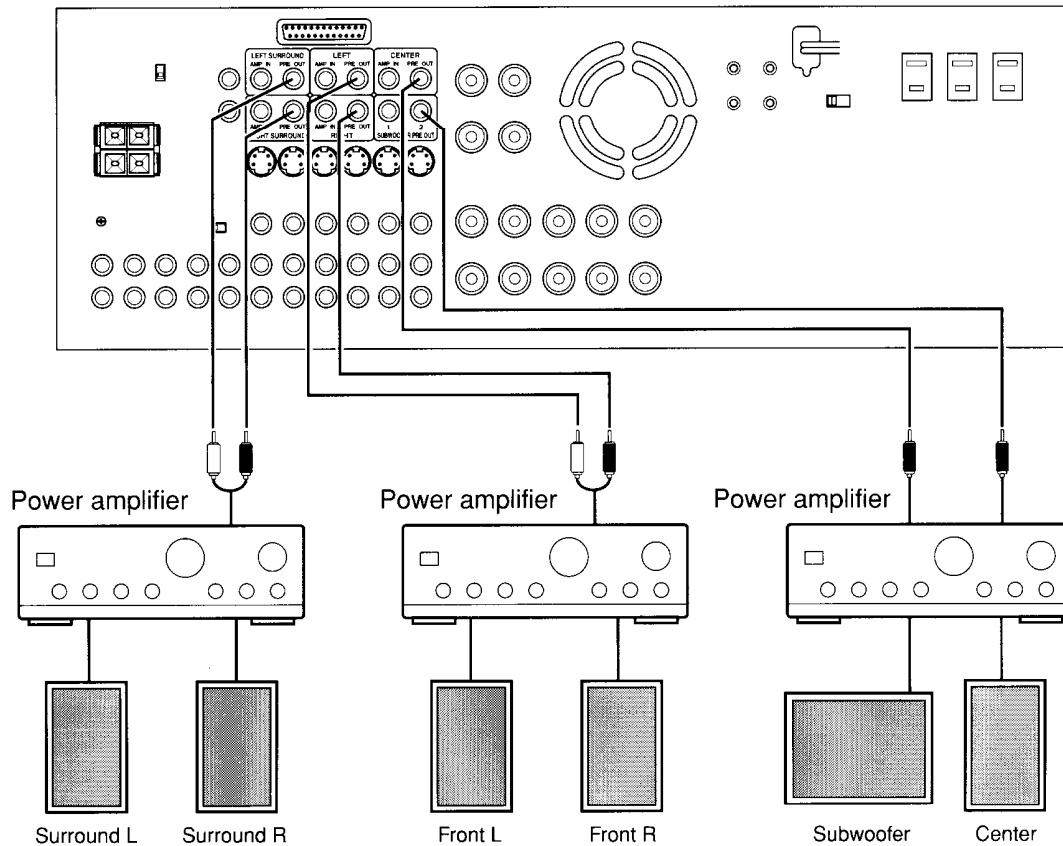
First remove the jumper plugs from the PRE OUT and AMP IN terminals on the rear panel.

NOTE:

Be sure not to lose the jumper plugs after they have been removed.

Optional power amplifier connections

The TX-SV828THX is equipped with a set of PRE OUT terminals which allow you to connect each external power amplifier. With a powerful power amp, you can play music at even higher volume levels than with the TX-SV828THX alone. Connect the power amp to the PRE OUT terminals of the TX-SV828THX, and connect the speakers to the power amp.



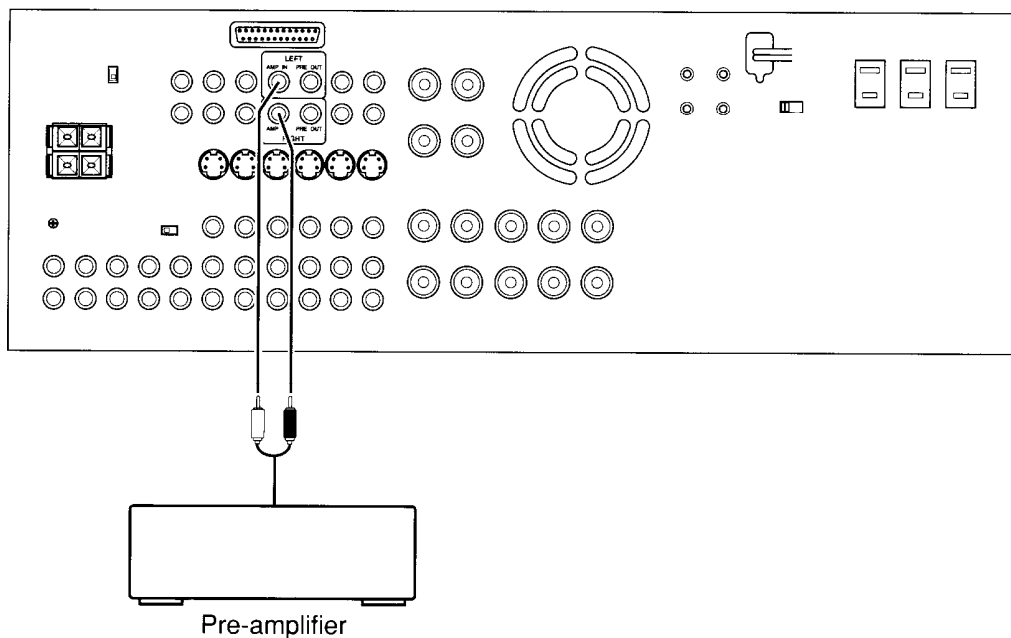
NOTE:

Power Amplifier or Integrated amplifier can be used in this application.

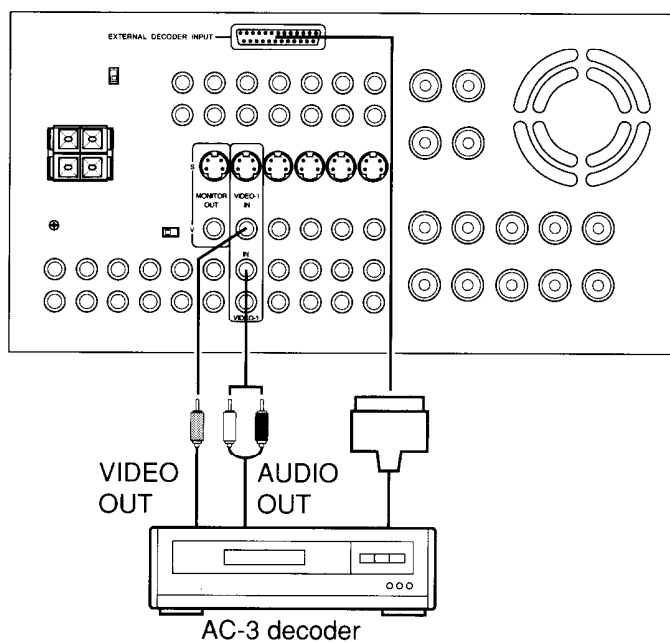
Optional pre-amplifier connections

Optional pre-amplifier connections

The TX-SV828THX is equipped with a set of MAIN AMP IN (AMP IN) terminals which allow you to connect an external preamplifier. Connect the preamp to the MAIN AMP IN (AMP IN) terminals of the TX-SV828THX, and connect the speakers to the TX-SV828THX.



AC-3 Decoder connections



Your TX-SV828THX is equipped with a DB-25 type External Decoder Input terminal. You will be able to enjoy Dolby Surround Digital sound by connecting one end of a cable (*) to this terminal and the male connector of the cable to the Dolby Surround AC-3 Decoder.

* Contact your authorized ONKYO Service Center.

Connection for Multiple-Room Remote Control

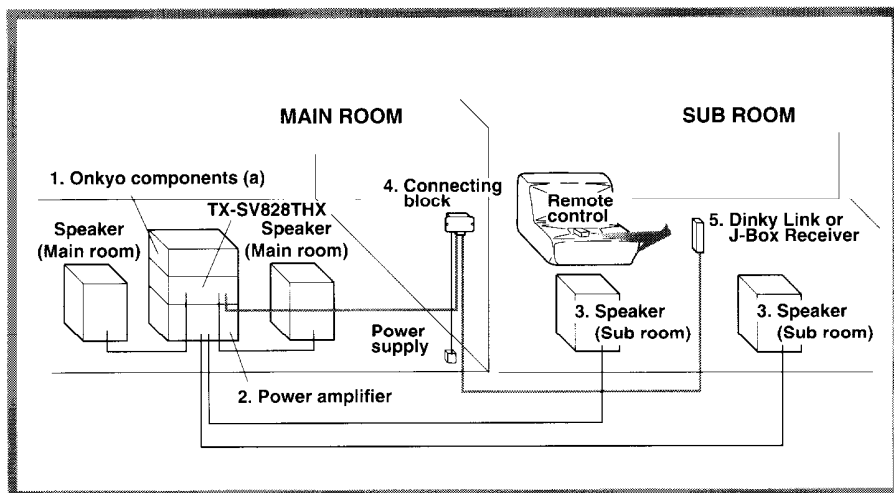
U.S.A. and Canadian models (Xantech Multiple-Room systems)

Do not plug in the power cord until all connections have been made.

When making connections ① through ⑥, be sure to connect the units as shown in the connection diagram below. Do not make a mistake when connecting the units.

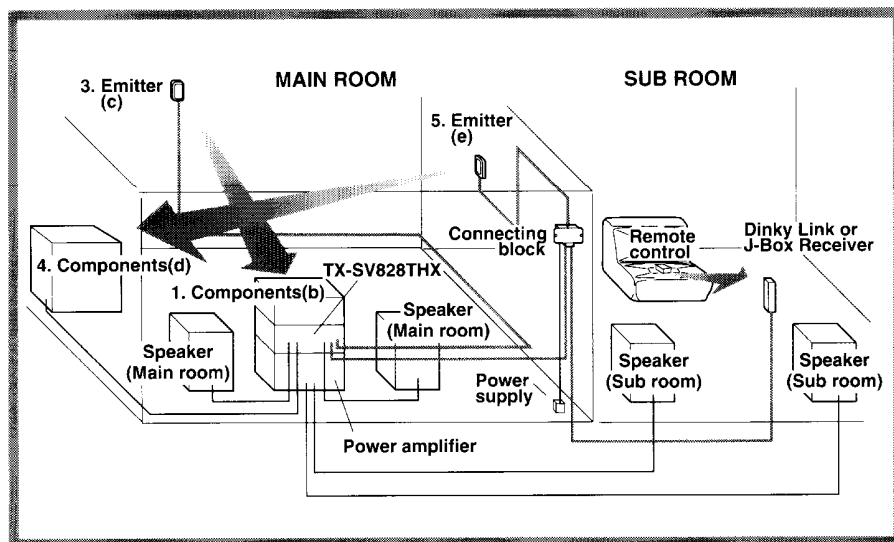
A. Operating components displaying Onkyo's RI mark from the sub-room

Components mounted in a rack should be connected as shown below to enable remote control operation.



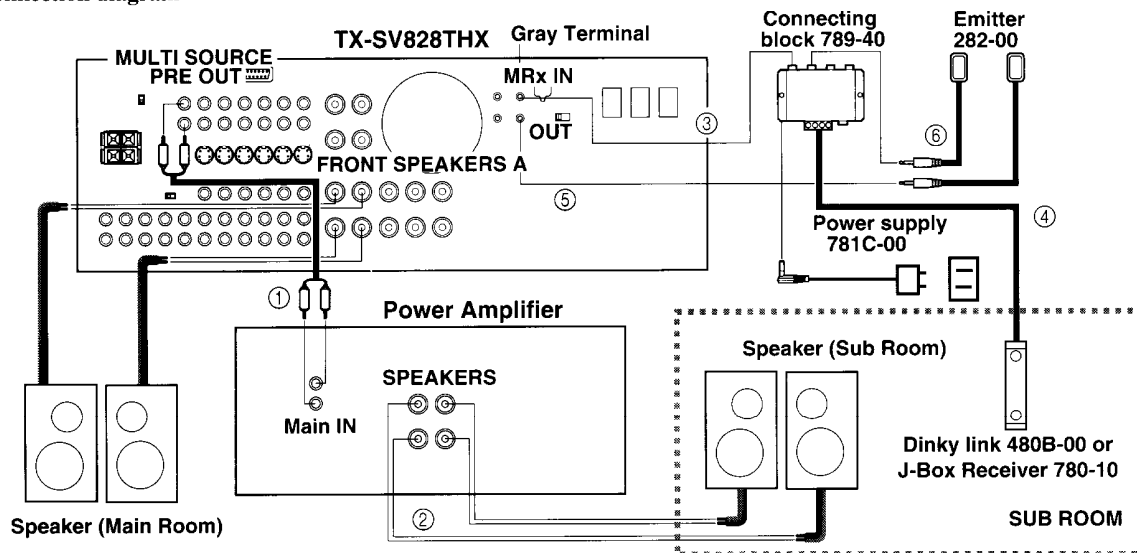
1. Set up the components (a) displaying Onkyo's RI mark.
2. Connect TX-SV828THX to the power amplifier. (①)
3. Connect the speaker B cables to the speaker terminal on the power amplifier. (②)
4. Install Connecting Block 789-40 in the main room, then connect it to the TX-SV828THX. (③)
(Connect Power Supply 781C-00 to the Connecting Block.)
5. Install Xantech's J-Box Receiver 780-10 or Dinky Link 480B-00 in the sub-room, then connect it to the Connecting Block in the main room. (④)

B. Using a remote control to operate components not displaying Onkyo's RI mark from the sub-room



1. Connect the components (b) to the TX-SV828THX.
2. Make the connections described above in steps 2 through 5 of section A.
3. Install Emitter 282-00 (c) so that its sensor is directed toward these components, then connect it to the TX-SV828THX. (⑤)
- Operating components which are positioned out of the range of the emitter installed as described above
4. Connect the components (d) to the TX-SV828THX.
5. Install another Emitter 282-00 (e) so that its sensor is directed toward these components, then connect it to the Connecting Block 789-40. (⑥)

Connection diagram



Connection for Multiple-Room Remote Control

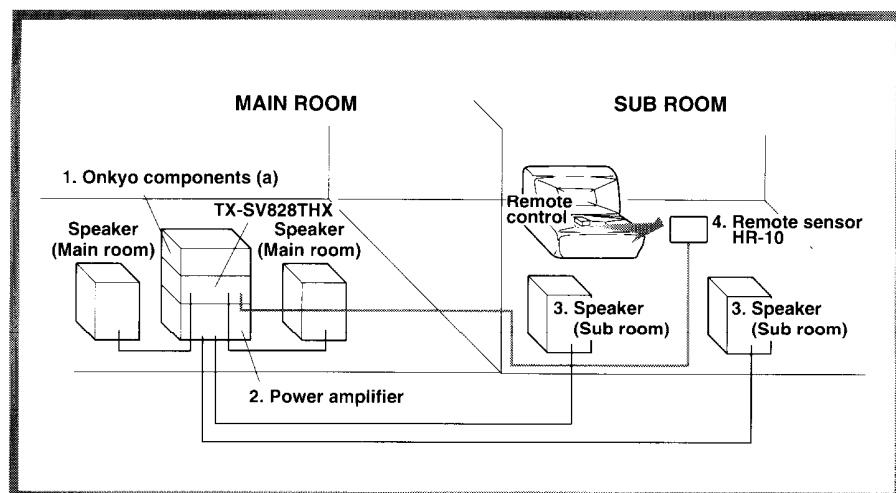
Models other than U.S.A. and Canadian models (Onkyo Multi-Room Systems)

Do not plug in the power cord until all connections have been made.

When making connections ① through ⑤, be sure to connect the units as shown in the connection diagram below. Do not make a mistake when connecting the units.

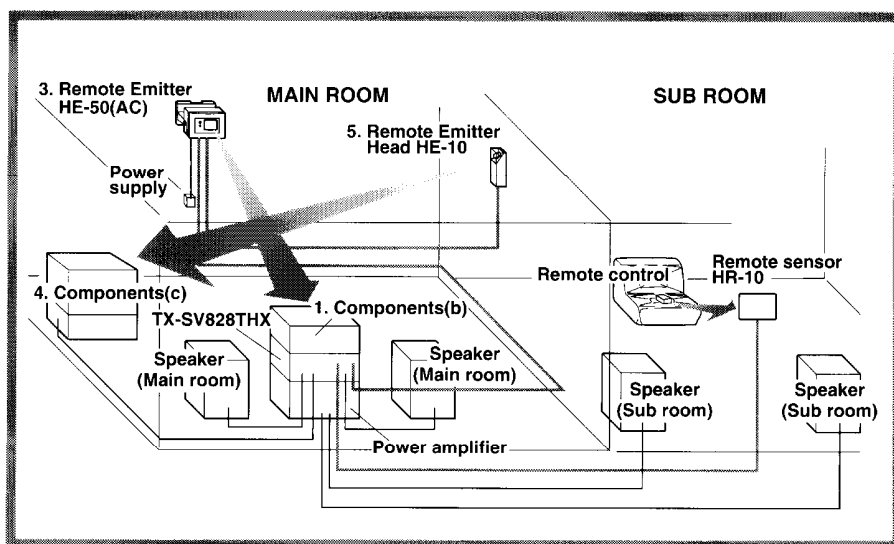
A. Operating components displaying Onkyo's RI mark from the sub-room

Components mounted in a rack should be connected as shown below to enable remote control operation.



1. Set up the components (a) displaying Onkyo's RI mark.
2. Connect the TX-SV828THX to the power amplifier. (①)
3. Connect the speaker (sub room) cables to the speaker terminal on the power amplifier. (②)
4. Install Remote Sensor HR-10 in the sub-room, then connect it to the TX-SV828THX. (③)

B. Using a remote control to operate components not displaying Onkyo's RI mark from the sub-room

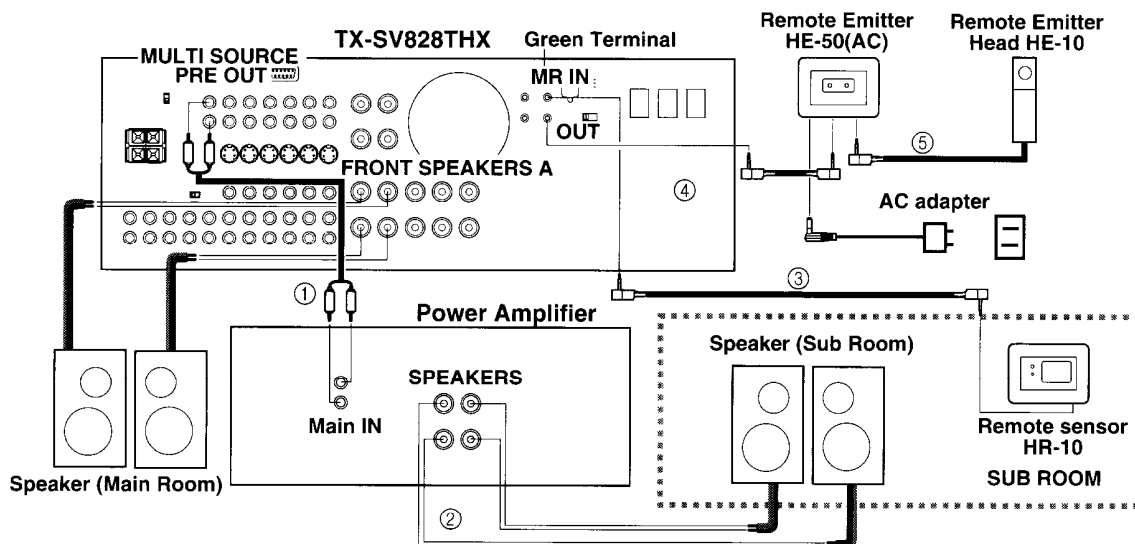


1. Connect the components (b) to the TX-SV828THX.
2. Make the connections described above in steps 2 through 4 of section A.
3. Install Remote Emitter HE-50 (AC) so that its sensor is directed toward these components, then connect it to the TX-SV828THX. (④)
(Connect the AC adapter to the Remote Emitter.)

■ Operating components which are positioned out of the range of the emitter installed as described above.

4. Connect the components (c) to the TX-SV828THX.
5. Install Remote Emitter Head HE-10 so that its sensor is directed toward these components, then connect it to the HE-50 (AC). (⑤)

Connection diagram



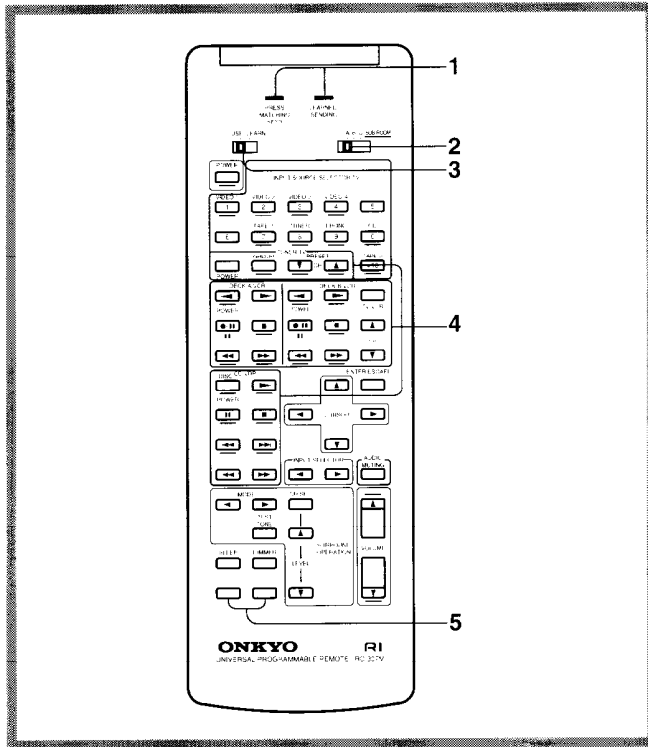
Learning Remote Control Codes

Universal Programmable Remote Control RC-307M

If you are using a product made by another company which has a remote control, you can memorize the codes of that product into the RC-307M.

NOTES:

- Commands of systems with the **RI ONKYO** mark are already stored at the A, B and C (SUB ROOM) positions of the A/B/C Selector switch. There is no need to "learn" them.
- This remote control uses infrared rays. Most remote control codes can be memorized using the infrared system; however, depending on the degree to which the system differs, there are some rare occasions where memorization is not possible.



Displays and switches

1. The Display indicator

(PRESS MATCHING KEYS, LEARNED/SENDING)

These indicators act as a guide when this unit "learns", "uses" and "sending" commands. They also warn the user when an error is made or when battery power is low.

2. A/B/C (SUB ROOM) selector switch

Set this selector switch to A or B when learning remote control codes.

3. USE/LEARN selector switch

Set this selector switch to LEARN when learning remote control codes.

4. The programmable buttons

■ The VIDEO section is partially indicated by blue characters and consists of the following functions.

For TV: Numeric buttonpad 1-9, 0, +10 CH (-,+), POWER

For VDP: POWER, ◀▶

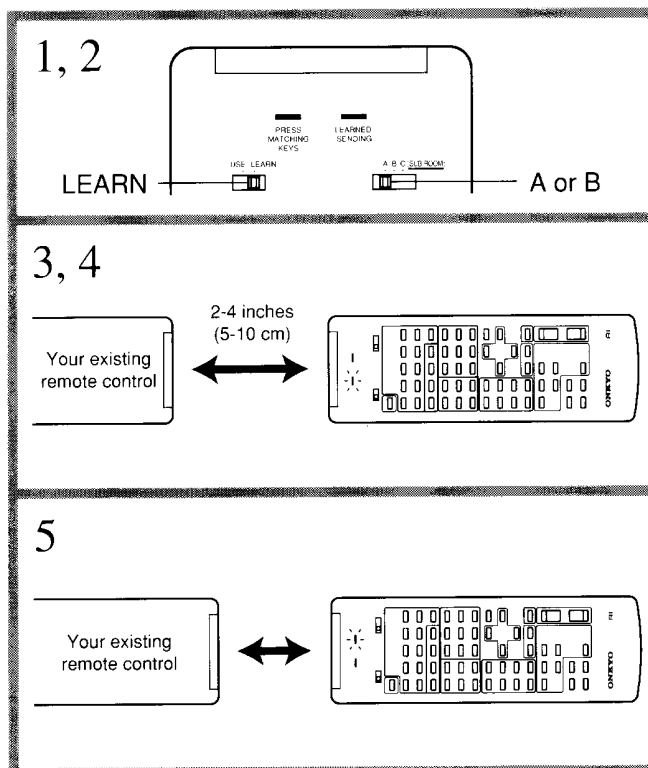
Assign the other buttons to the same section as the white characters on the CD.

For VCR: POWER, PAUSE (||) TV/VCR, CH

Assign the other buttons to the same section as the white characters on the tape deck.

- The RC-307M can also store remote control codes at A and B buttons that are not indicated by characters or symbols.

5. Spare learning buttons

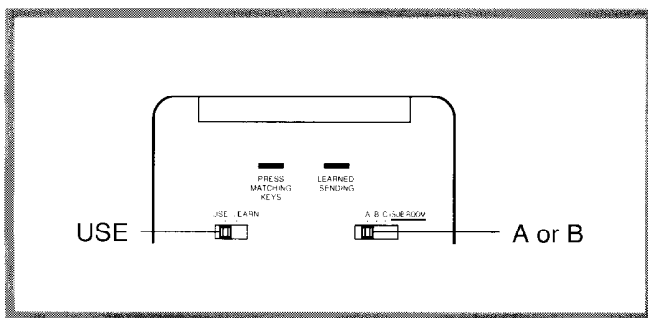


"Learning" new controller codes

- Set the USE/LEARN selector switch to LEARN.
- Select A or B from A/B/C (SUB ROOM) selector switch.
Each of the A or B buttons can be placed in the memory with a different code. They cannot be placed in memory when to C (SUB ROOM) position.
- Place the head of your existing remote control 2-4 inches (5-10 cm) from the head of this remote control, laying both units on a table or another flat surface.
- Press the button in the PROGRAMMABLE AREA of this remote control that you want to memorize the code into.
- The PRESS MATCHING KEYS indicator lights.
- Hold down the button you want to memorize on your existing remote control while the PRESS MATCHING KEYS indicator is lighted, until the LEARNED/SENDING indicator lights.
- To continue the process and memorize another button, repeat steps 4 - 5.

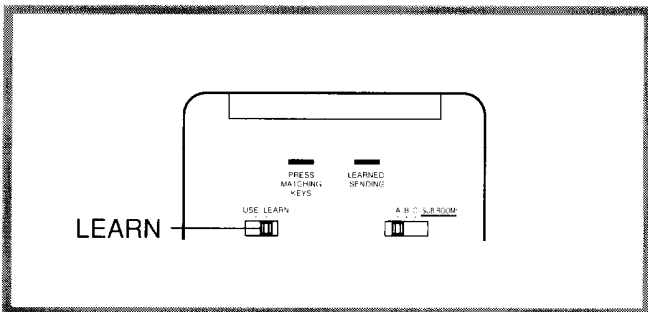
NOTES:

- Some remote controls use a single button to change codes, with the code changing each time the button is pressed. If you are using this kind of control, please perform "learn" operations for each function individually, one function to one this remote control button.
- For instructions regarding the operation of "learned" units, please refer to the individual instruction manuals for each product.
- Even after codes have been memorized, please keep your existing remote control transmitter in a safe place. If the memorized codes are lost when the batteries run down, etc., it will be necessary to memorize them once again using the existing remote control transmitter.



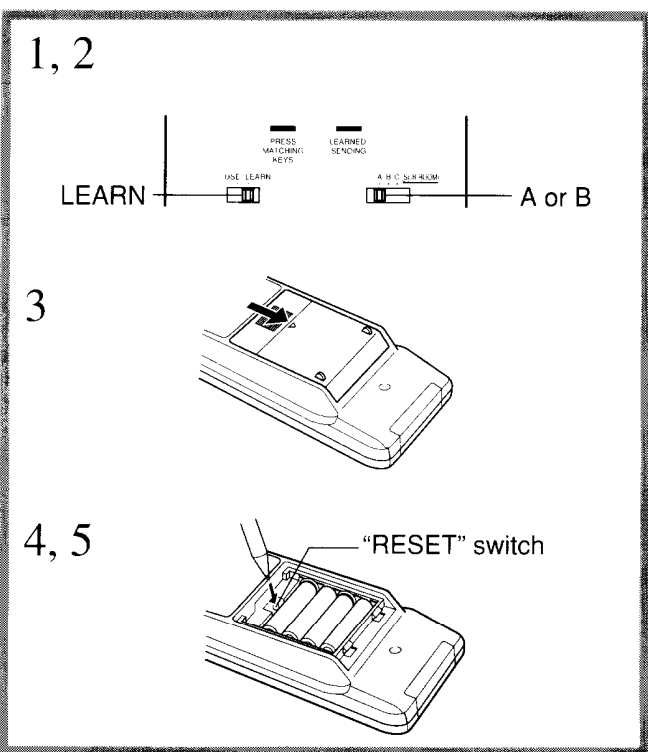
Operating the remote control

- Please check whether previously memorized functions are working properly. If the LEARNED/SENDING indicator is not illuminated when a programmed button is pressed, it may need to be relearned from your existing remote control.
1. Set the USE/LEARN selector switch to USE position.
 2. Set the A/B/C (SUB ROOM) selector switch to the desired position. Then operate the remote control by pressing the button of the functions you want to use.
- There is no power switch for the remote control, as power is supplied automatically when a button is pressed. If no button is pressed for a short interval, power goes off automatically, to avoid wasting the battery.
 - If you press a button for which no code has been memorized, the LEARNED/SENDING indicator will not light up.



Changing commands

1. Set the USE/LEARN selector switch to LEARN.
 2. Commands should be memorized using the method outlined in the section "Learning" new controller codes.
- Entering new codes for certain buttons does not affect the functions of the other memorized buttons.



How to reset the RC-307M (Clearing all memorized command)

1. Switch the USE/LEARN selector switch to LEARN.
 2. Switch A/B/C (SUB ROOM) selector switch to A or B you want to reset.
 3. Remove the battery compartment cover.
 4. Press the button you want to delete to light up PRESS MATCHING KEYS indicator.
 5. Use the tip of a pointed instrument, such as a ball-point pen, to press the Reset switch (indicated by the RESET in the battery case), then release the switch when the PRESS MATCHING KEYS indicator goes out. The reset operation is completed.
 6. Repeat step 4 to 5 to reset other buttons if desired.
 7. Attach the battery compartment cover again.
- If there are preset ONKYO codes, the preset codes will be recalled.

If the indicators flash

During learning, the both indicators flash if the codes being learnt are unstable and cannot be memorized properly. This is because the RC-307M requires highly stable transmission output for identifying codes. To ensure the reception of stable codes, place both remote control on a table or other level surface and position them at a fixed distance and orientation, facing each other.

Another possible reason for unstable transmission codes is worn-out batteries on the existing remote control. Replace the batteries of the existing remote control with new ones, then repeat the learning operation.

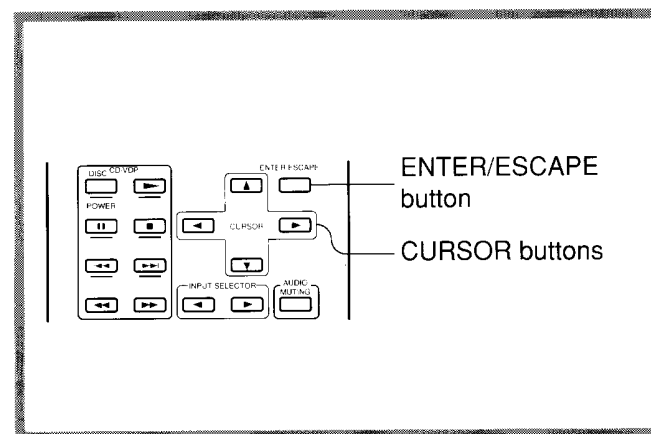
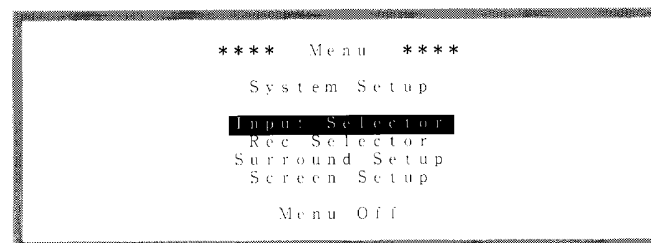
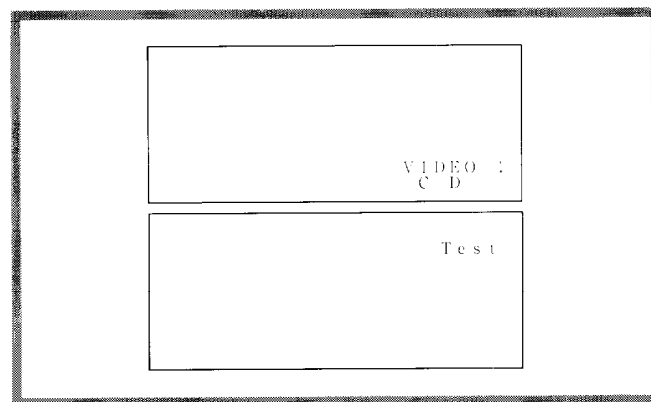
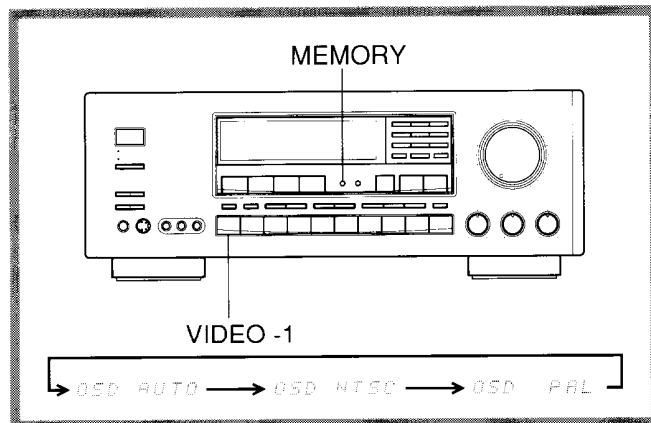
If the both indicators flash when a button is pressed on the RC-307M, it means that the RC-307M batteries are worn out. Replace its batteries with new ones.

Using the On-screen display function

(This function is done entirely with the remote control)

NOTE: 1) Be sure that MONITOR OUT from TX-SV828THX is connected to VIDEO-1 input on TV/MONITOR.

2) You must sure TV/MONITOR is set to VIDEO-1 input.



Switching between the NTSC and PAL systems

U.S.A and Canadian models

The on-screen display function is only available when an NTSC TV system is used.

Models other than U.S.A. and Canadian models

The type of TV system can be switched between the NTSC and PAL systems. Follow the procedures below if the TV signal is being sent, but the screen is scrolling.

While pressing the MEMORY button, press the VIDEO-1 button.

The name of the TV system which was chosen will be shown on the display for three seconds.

If you set to "AUTO", the unit will automatically select the video system used by the connected video device.

The on-screen function uses a monitor TV connected to the TX-SV828THX as a display, and is classified into two categories.

On-screen display

Immediate display

This is the indication shown when the input selector, the volume of the center/surround speakers or the surround mode is changed. The message will automatically disappear after 3 seconds. The following items will be shown on the display during the operation of the main unit.

- When the power is turned on.
- When the input selector is changed.
- When the surround mode is changed.
- When the delay time is changed.
- When the AUDIO MUTEING is pressed on the remote control.
- When the TEST TONE is pressed on the remote control.
- When pressing the VOLUME ▲/▼ on the remote control.

The menu screen

This is the display shown when the ENTER/ESCAPE button on the remote control is pressed.

The menu screen can be operated by means of cursor buttons on the remote control. The monitor TV should be connected to the unit to utilize this function.

Using the menu screen

This operation is performed using the remote control.

These buttons are used to set the system setup, the Input Selector, the Rec Selector, the Surround Setup and the Screen Setup.

ENTER/ESCAPE button

- Used to select the menu screen.

CURSOR buttons

- ▲▼: Used to move the cursor upward and downward on the screen.
- ◀▶: Used to move the cursor to the left and right on the screen, and to change the parameters or select the items on which the cursor is located.
- Holding down the button will change the parameter or move the cursor continuously.
- Cursor is black and white reversed characters on the screen.

On-screen displays video images in the background when a video source is playing, and displays text on top of your selected colour on screen when nothing is being played back.

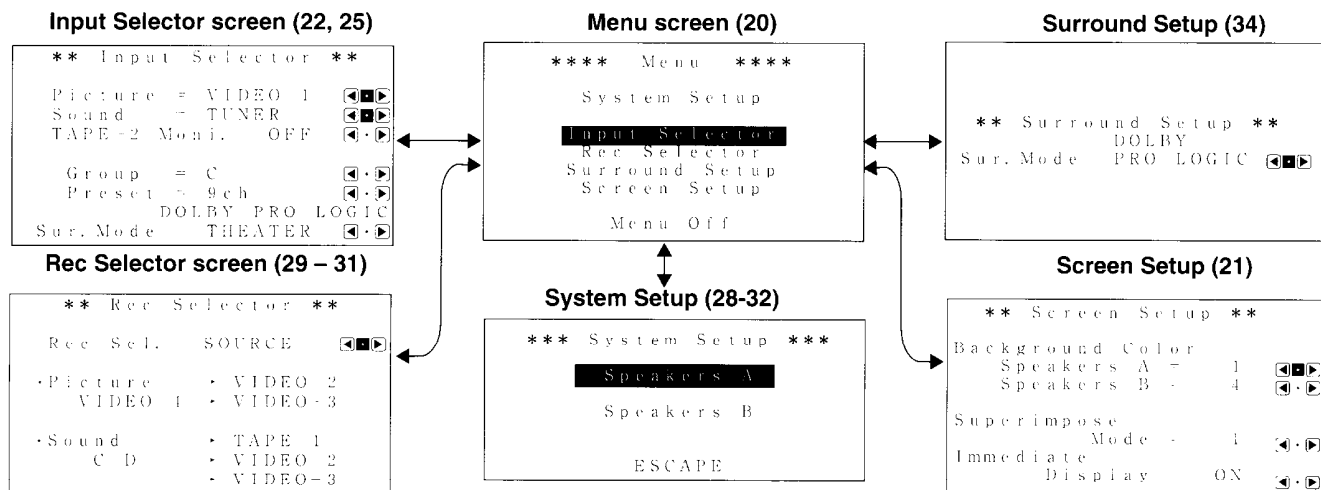
On-screen is output only to the MONITOR OUT terminal, not to the record terminal (out). Therefore, even if any On-screen is displayed on the monitor TV while recording, the On-screen display is not recorded.

Menu items on each screen differ according to the Surround mode etc. Pressing the ◀ or ▶ buttons while the cursor is on some items may display a separate sub-screen.

The screen changes as follows

Please refer to the page inside the parentheses for details about each screen.

When an item is selected with the CURSOR buttons ▲ or ▼ on the Surround Setup screen and the ◀ or ▶ CURSOR buttons are pressed, another item may disappear, or in some cases the cursor may skip over some items.



Screen Setup menu

When you select the Screen Setup menu, the following display appears on the On-screen display.

Background color

You can select the background color among 8 colors. Select the number of the corresponding color from 1 to 8. The numbers correspond to the following numbers in the table.

1	2	3	4	5	6	7	8
Blue	Magenta	Red	Green	Cyan	White	Yellow	Black

Please note that the above color descriptions are standard descriptions. The actual colors may differ depending on the tone and brightness adjustments of the projector or TV used.

When there is an image input signal, the input signal will be used for the background. Therefore the background color which you have selected will not be displayed.

Superimpose Mode

It is possible to set the On-screen display so that it is easy to read when an image input signal is connected.

Mode OFF: Normal

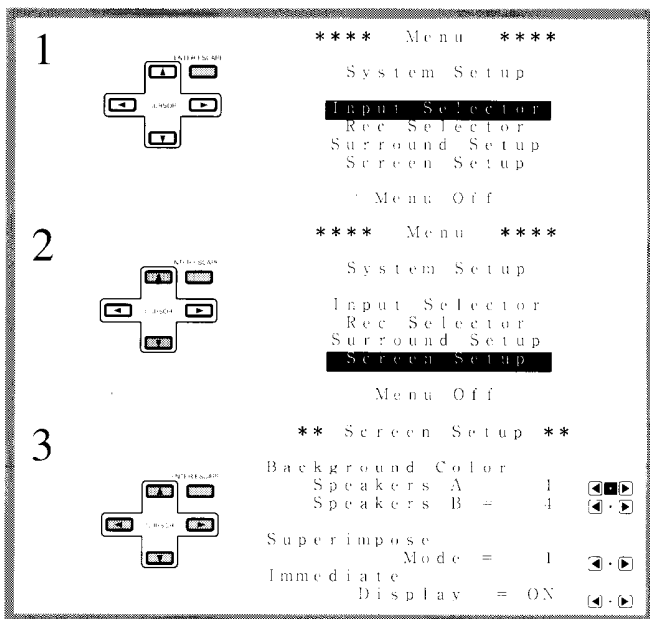
Mode 1: The image from the input signal is not displayed behind the lettering.

Mode 2: The image from the input signal is replaced with the back-ground color.

Immediate display

When Immediate display is set to ON, the Immediate display will be shown, and when it is set to OFF, the Immediate display will not be shown.

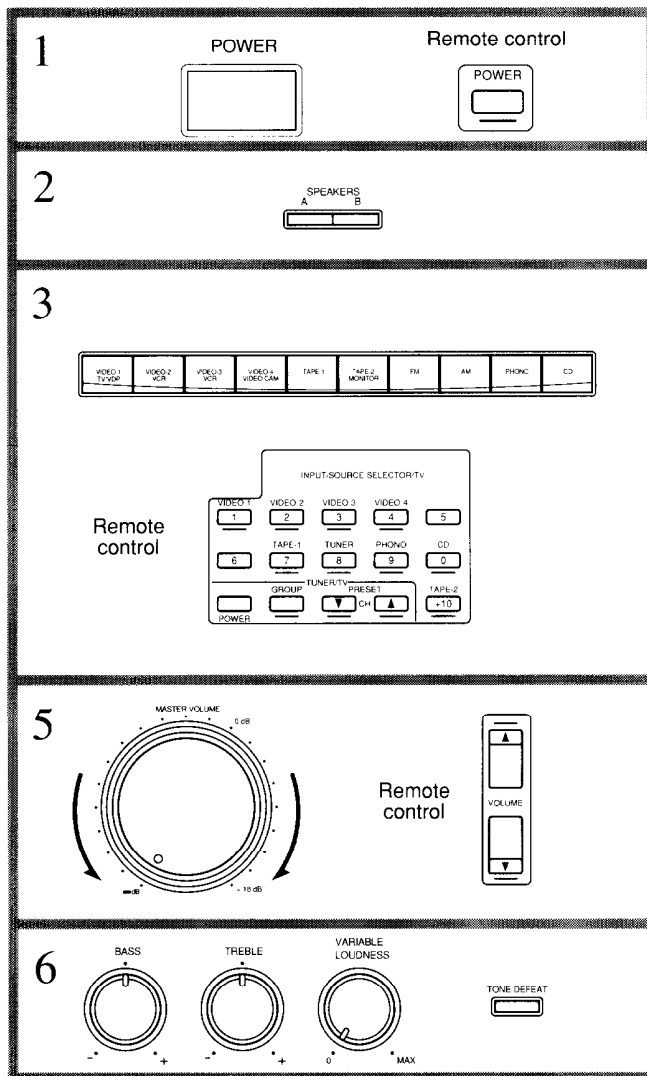
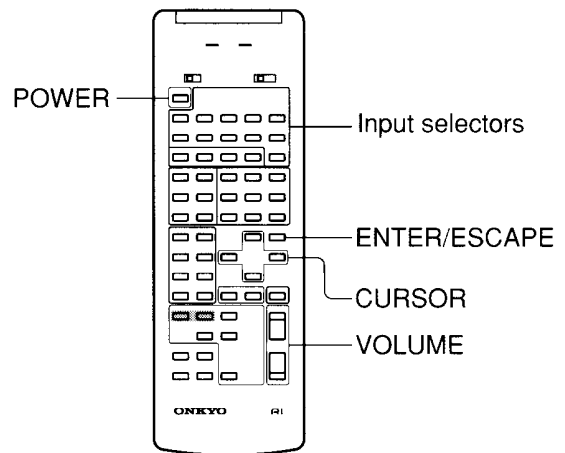
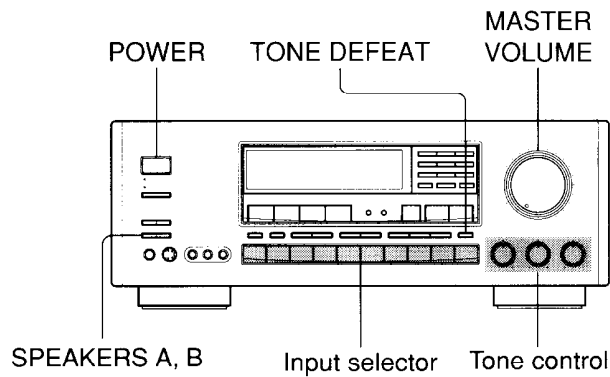
When Menu Off is chosen, the selected background color will not be displayed. This can be useful when you don't want to display the message, or when you want to check the Auto/Manual tuning for TV/BS devices connected to the Image input.



Basic operation

1. Press the ENTER/ESCAPE button.
2. Select the desired menu using the ▲ or ▼ CURSOR buttons.
3. Press the ENTER/ESCAPE button again.
4. Select the desired item using the ▲ or ▼ CURSOR buttons and change the parameters and conditions of the items using the ◀ or ▶ CURSOR buttons.
5. Press the ENTER/ESCAPE button after all the desired conditions have been input.
 - The screen will display the main menu.
6. Use the ▲ or ▼ CURSOR buttons to select Menu Off. Press the ENTER/ESCAPE button again to turn the Menu screen off.
 - Repeat steps 2 - 5 in order to use the other functions.

Listening to your favourite source



Basic operation

1. Press the **POWER** button to turn on the power.
2. Press the **A or B speaker selector** button.
 - A or B indicator lights up.
3. Press the **desired input selector** button.
 - Check the audio muting is off.
 - The button pressed will be shown on the display. For FM or AM reception, the band and the frequency will also be shown.
 - Confirm that the **TAPE-2 MONITOR** indicator is off when a source other than the **TAPE-2 MONITOR** has been selected. Also check the audio muting is off.
 - Please refer to the operations from page 42 onward in order to play the selected source with Surround.
 - When using a external decoder, choose the **VIDEO-1**. (Refer to page 47)
4. **Start the selected input source playing.**
 - Follow the operating instructions of that unit.
5. **Adjust the volume to appropriate level using the MASTER VOLUME knob.**
6. **Adjust the tone controls**

Bass control knob (BASS)

Adjust to strengthen or weaken bass response.

Treble control knob (TREBLE)

Adjust to strengthen or weaken treble response.

VARIABLE LOUDNESS control

By fully turning the **LOUDNESS** knob to the right, both the treble and bass are reinforced even when the volume is turned down low. Use this knob according to the music source and according to the listening area. Its purpose is to enrich the natural sound effects of both the treble and bass at lower listening volumes.

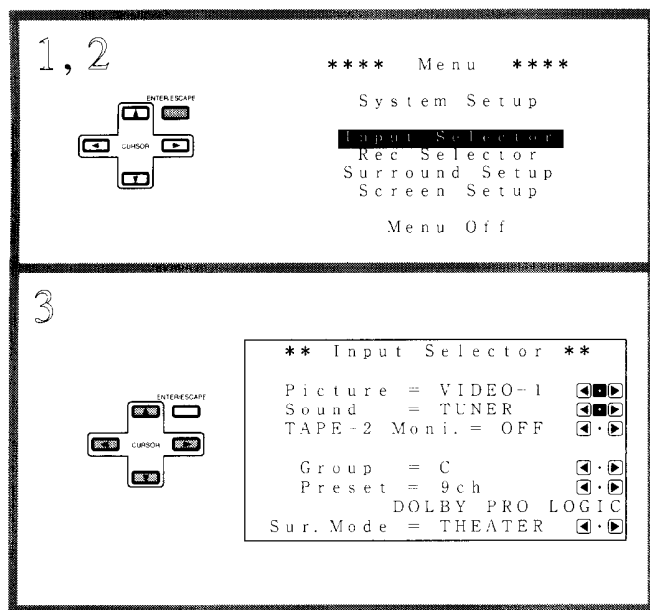
TONE DEFEAT control

By pressing the **TONE DEFEAT** button, you can obtain the purest possible sound reproduction, by bypassing the bass, treble and loudness controls. It is still possible to adjust the volume.

NOTES:

- When the surround mode is set to **DOLBY PRO LOGIC**, **DOLBY PRO LOGIC THX CINEMA** or **DOLBY PRO LOGIC THEATER**, the **TONE DEFEAT** mode automatically comes on and the **BASS**, **TREBLE** and **VARIABLE LOUDNESS** tone controls cannot be adjusted.
- When **High Pass Filter** is turned on, there are very little Bass effects.

Listening to your favourite source



On screen

1. **Press the ENTER/ESCAPE button.**
The menu screen will be shown.
2. **Move the cursor to input selector and press the ENTER/ESCAPE button.**
The Input Selector screen will be shown.
3. **Select the desired input source.**
Move the cursor to the desired selection, for example Picture, Sound, etc., and press the ◀ or ▶ CURSOR button to choose the desired source.
Press the ENTER/ESCAPE button when the desired selection is displayed.

Picture

Indicate the input source of the picture.

Sound

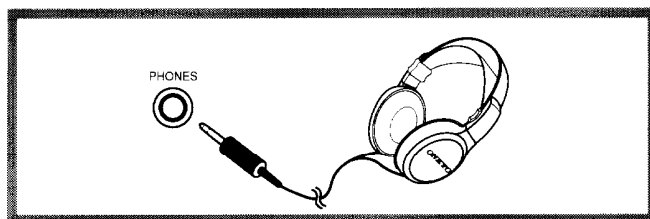
Indicate the input source of the sound. When you press the ◀ or ▶ cursor buttons while the cursors are both Picture and Sound, you can change the input source of the Picture and Sound at the same time. However if you select other than VIDEO-1 to 4 for the input source, the image will be fixed to the most recently selected video source so that only the sound changes.

TAPE-2 MONI

Indicates TAPE-2 MONITOR ON/OFF.

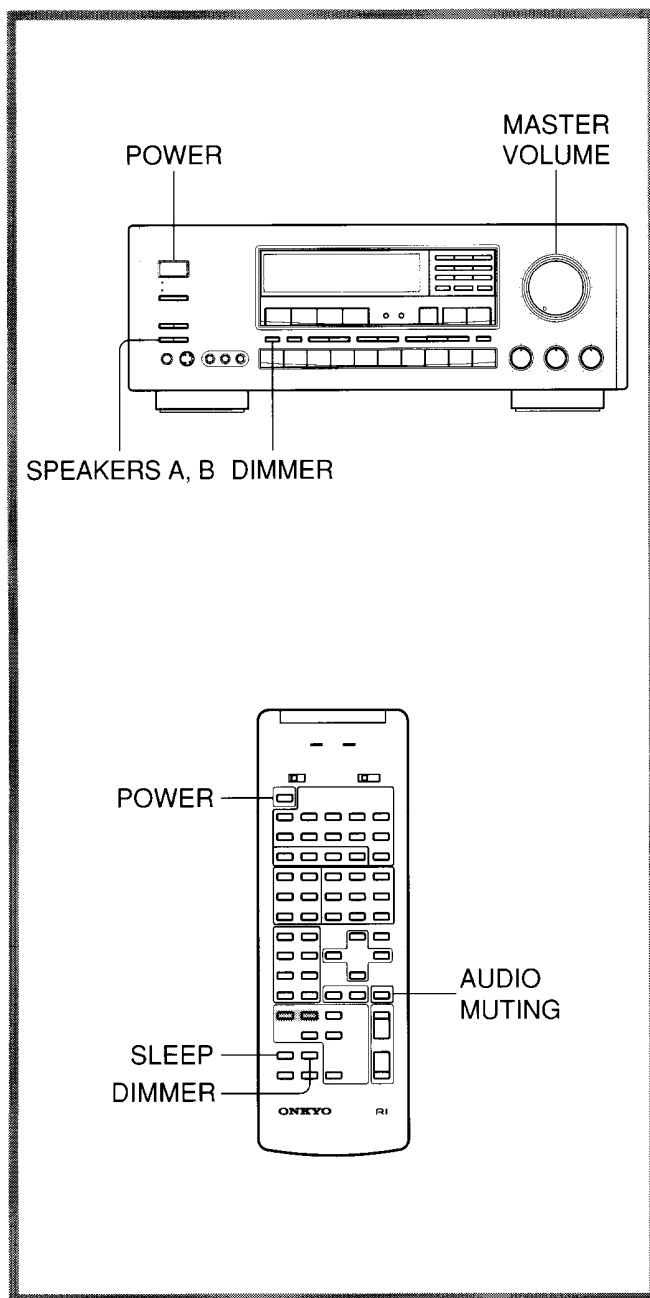
Sur. Mode

Indicates surround mode.



Using headphone

Stereo headphones with a standard binaural (stereo) plug can be connected to the phones jack. The sound heard through the headphones is the sound from the Front speakers, but may sound a little different to what was heard from the speakers (it may sound relatively far away).



Explanation of the buttons

Power button (POWER) and STAND-BY/RECEIVED indicator

The STAND-BY/RECEIVED indicator comes on when the AC power cord for this unit has been inserted in an outlet.

This indicates that this unit is standing by for operation.

Press the power button will turn the main unit on, then this indicator goes off.

The indicator also lights when a signal is received from the remote control.

Speaker selector buttons (SPEAKERS A/B) and indicators

You can operate the Speaker selector. When A or B is on, the A or B SPEAKERS indicator will light.

When SPEAKERS A is selected, sound will come from the front left and right, center and left and right surround speakers at the same time.

NOTE:

A and B can not be turned on at the same time.

Master volume control knob (MASTER VOLUME)

With a correctly calibrated system, the 0 dB position corresponds to the same volume level that is heard in a film mixing room when producing the soundtrack.

Use the master volume control knob to adjust the volume of the Front Left and Right, Center and Surround Left and Right speakers and the pre out levels (not including the multi source pre out level) at the same time. Turn clockwise to increase the volume level. The volume can be adjusted manually and by the remote control's VOLUME ▲/▼ buttons.

The Master Volume level can be set from $-\infty$ dB(minimum), $-60...-1$, 0, $+1...+18$ dB(maximum) and the level is shown on the display.

NOTE:

Depending on the channel level setting, it may be impossible to set the Master Volume level to $+18$ dB. Even if the Master Volume knob is manually turned to its maximum, it will return to its highest possible setting.

Use the remote control to adjust the multi-source level. (Refer to page 51 for details.)

Audio muting button (AUDIO MUTING) (Remote control only)

This button temporarily switches off the sound from the speakers, pre out or headphones by operating the TX-SV828THX audio muting circuits. The audio muting indicator MUTING will flash. Pressing the button again or using the POWER button to turn the power off and on will turn off the audio muting.

Audio muting using this button does not affect the sound of the multi source.

Dimmer button (DIMMER)

This button can be used to change the brightness of the display. The display brightness changes in four steps (bright, medium, dim and off). If the display is turned off and a function is set, the display will turn off after being lit for a few seconds.

Sleep button (SLEEP)

Press to set the power-off timer. The sleep timer is a function which turns off the power to the system after a certain period from the time it is set. When this button is pressed, "90 MIN" is displayed for 5 seconds, and the power will go off 90 minutes later. Each time the button is pressed during 5 seconds, the timer setting changes by 10 minutes e.g. 80, 70, 60 ... While the sleep timer is operating, the SLEEP indicator is lit. If the sleep button is pressed during this time, the amount of time remaining on the timer is displayed, and if the button is pressed during that display, 10 minutes will be subtracted from that time.

If the button is pressed when the panel display shows 10 minutes or less, the sleep timer is cancelled, and the power is not turned off.

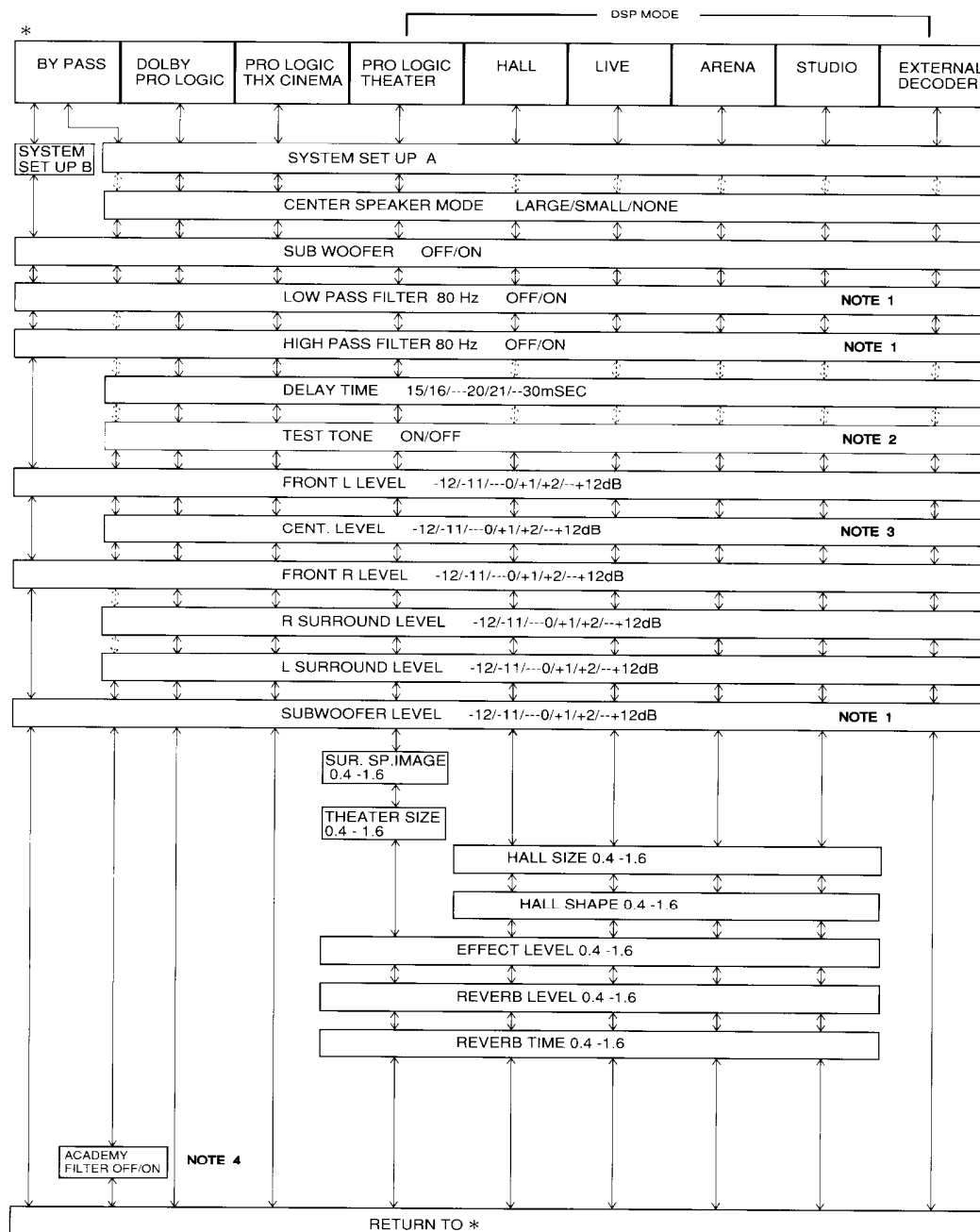
TX-SV828THX Parameter

Press the ◀ and ▶ PARAMETER SELECTOR buttons to select the parameter you want to change.

- Displayed in the display section for 5 seconds.
- If the display goes out, you can press the PARAMETER SELECTOR button again.

Use the ◀ and ▶ PARAMETER CONTROLLER buttons to select a value for the parameter.

- Adjust the parameter by repeating steps and referring to the parameter selector list.
- Refer to pages 28 to 32 and 42 to 50 when setting each parameter.



- When following the line down from the surround modes at the top of the table, the dotted lines indicate that the parameters below them are skipped.

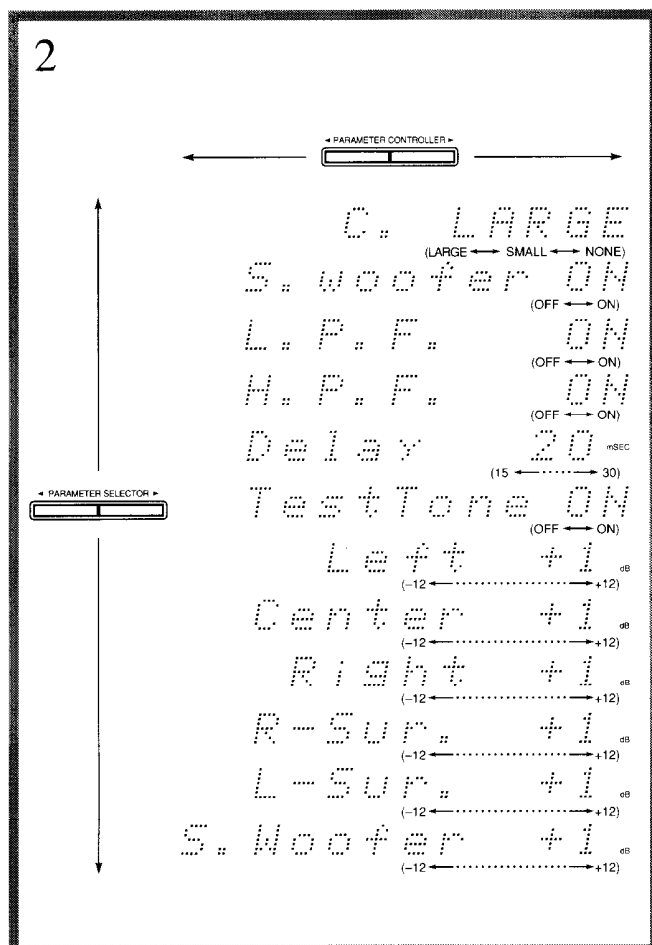
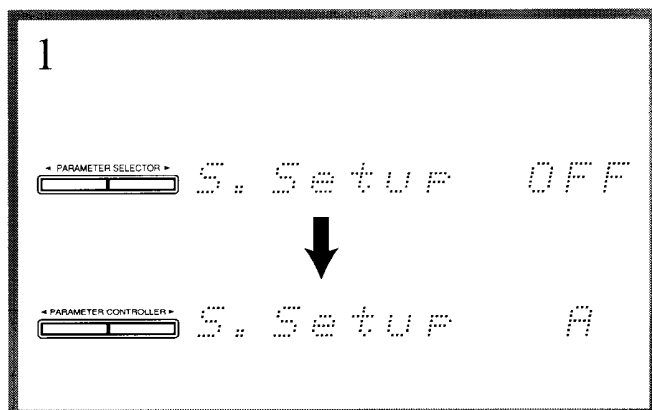
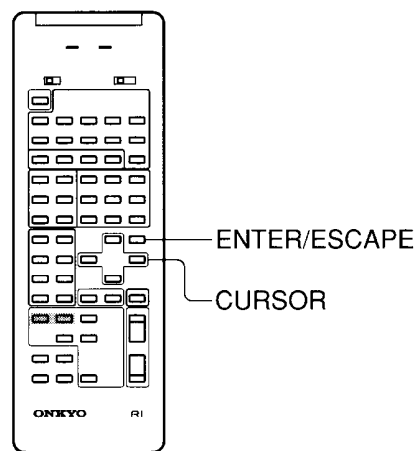
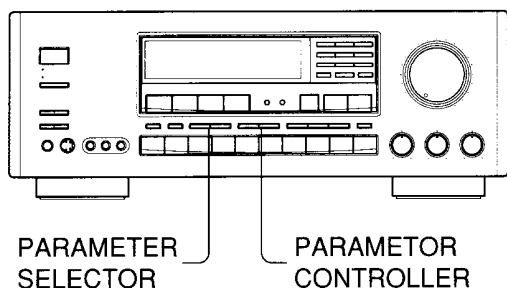
NOTE 1: This parameter can be set when SUBWOOFER is turned on.

NOTE 2: Each channel level can be set when TEST TONE is turned on.

NOTE 3: This parameter cannot be set when CENTER SPEAKER MODE is set to NONE.

NOTE 4: This parameter can be set when STEREO/MONO is set to MONO.

System setup (for all surround modes)



System setup menu

By using the system setup menu, you can set the speaker levels and other parameters for the SURROUND MODEs (including BY PASS). System Setup A and B can be set differently.

The following parameters can be set in System Setup A:

- Center speaker mode
- Subwoofer ON/OFF
- Low pass filter ON/OFF
- High pass filter ON/OFF
- Delay time
- Test tone
- Front left/right speaker levels
- Center speaker level
- Left/right surround speaker levels
- Subwoofer speaker level

The following parameters can be set in System Setup B:

- Subwoofer ON/OFF
- Low pass filter ON/OFF
- High pass filter ON/OFF
- Front left/right speaker levels.
- Subwoofer speaker level

* The SURROUND MODE is set to BY PASS.

- Since all parameters will have the same setting in all SURROUND MODEs (including BY PASS), it is not necessary to separately set the parameters for each surround mode.

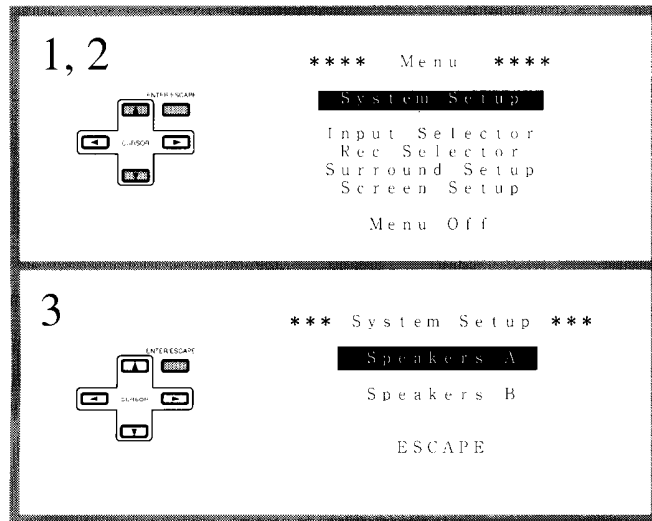
Setting System Setup A

1. Turn on system setup

Operating with the main unit:

- Turn on system setup and choose the system setup A.
- Set the desired parameter.

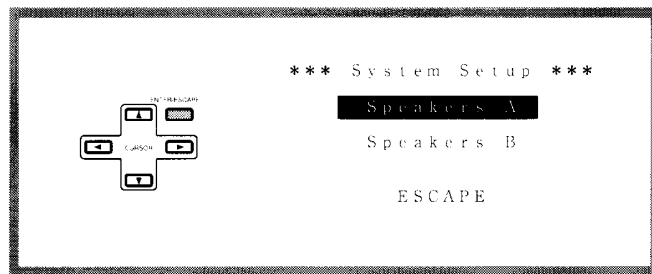
System setup (for all surround modes)



Operating with the cursor on the screen using the remote control
Choose the System Setup screen.

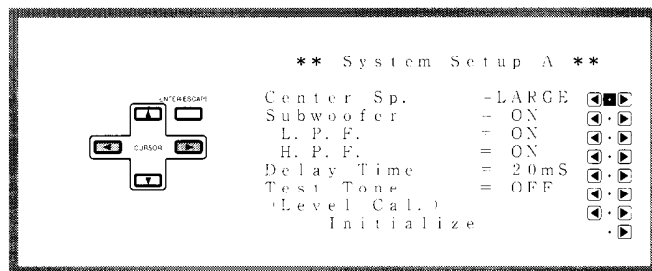
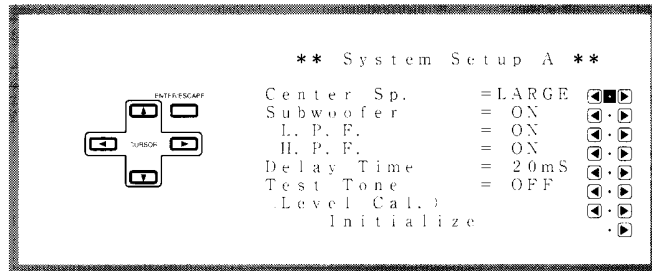
1. Press the ENTER/ESCAPE button.
2. Move the cursor to System Setup using the ▲ or ▼ CURSOR buttons.

3. Press the ENTER/ESCAPE button.
Set the desired parameter.



2. Speakers A or B

1. Move the cursor to Speakers A and press the ENTER/ESCAPE button.

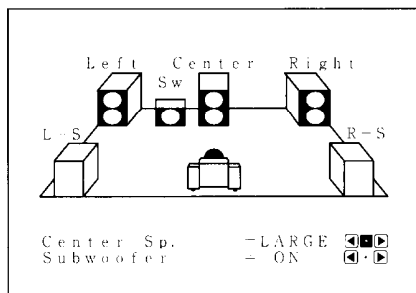


3. Center Speaker Mode

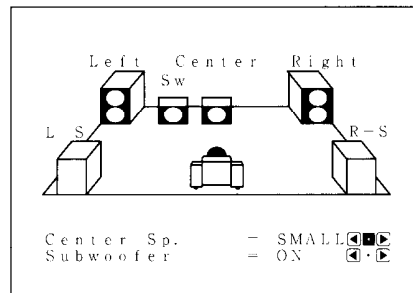
Choose LARGE, SMALL or NONE depending on the size of the center speaker and whether there is one or not.

Move the cursor to Center Sp and press the ◀ and ▶ CURSOR buttons.

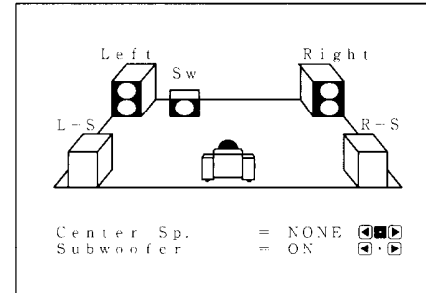
In LARGE mode:



In SMALL mode:

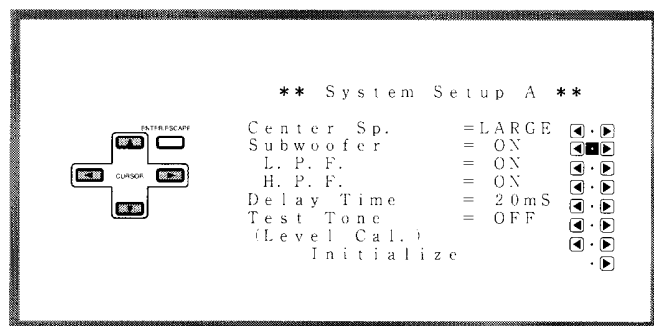


In NONE mode:



After adjusting the settings, press the cursor ▼ button or the ENTER/ESCAPE button.

System setup (for all surround modes)



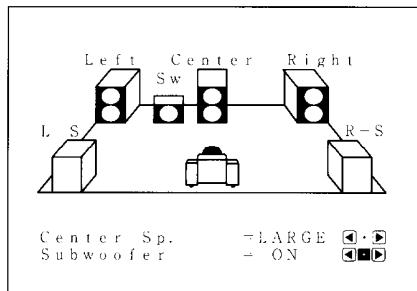
4. Subwoofer

This function is used to create a powerful bass. The TX-SV828THX is equipped with a pre out terminal especially for attaching a subwoofer. Use either a powered subwoofer or a main amp and a subwoofer speaker.

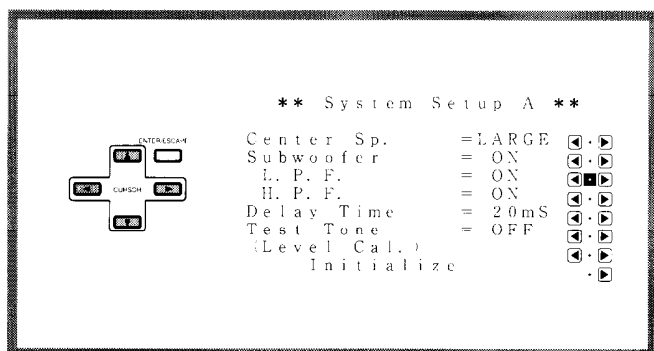
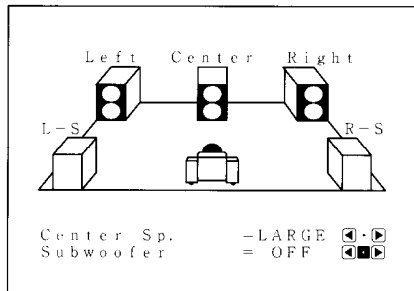
Choose ON or OFF depending on whether a Subwoofer is being used. Select OFF if a subwoofer is not being used.

Move the cursor to Subwoofer and press the ◀ and ▶ CURSOR buttons.

In Subwoofer ON mode:



In Subwoofer OFF mode:



5. Low/High Pass Filter

This function provides an active cross-over between the front speakers and the subwoofer speaker. The high pass filter removes the low bass from sounds sent to the front speakers. The low pass filter removes any mid-range and high frequency sounds from the signals sent to the subwoofer output.

Move the cursor to L.P.F. or H.P.F. and press the ◀ or ▶ CURSOR buttons.

If a Subwoofer is being used, turn on both H.P.F. and L.P.F. If the front left, center and right speakers are the full range type turn off the H.P.F. in order to further increase the bass output.

NOTES:

- When H.P.F. is turned on, the frequencies below 80 Hz are removed from the signals sent to front left, center and right speakers.
- When L.P.F. is turned on, the frequencies above 80 Hz are removed from the signal sent to the subwoofer.
- H.P.F. and L.P.F. go off when the subwoofer is turned off.

6. Delay Time

This setting can be used when SURROUND MODE is set to DOLBY PRO LOGIC, THX CINEMA or THEATER.

By adjusting the delay time, the apparent front-to-surround channel leakage can be reduced. Adjustable delay time allows you to tailor the acoustic size of your listening environment.

The delay time is specified at 20 msec. It is recommended that initial delay be set at 20 msec, but adjustment from 15 to 30 msec is possible.

When operating with the main unit

1. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select Delay Time.

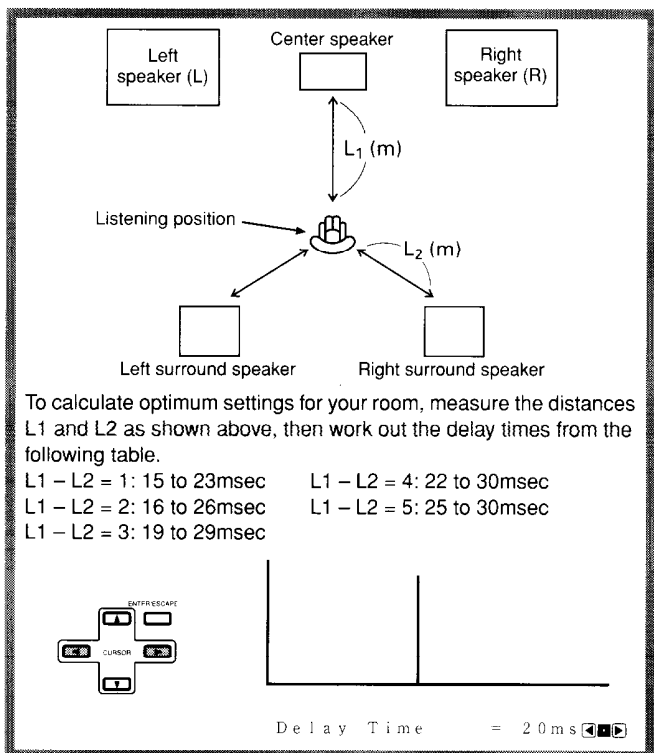
- The current set value, Delay Time 20 mSEC for example, is shown for a few seconds on the display.

2. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to adjust the delay time.

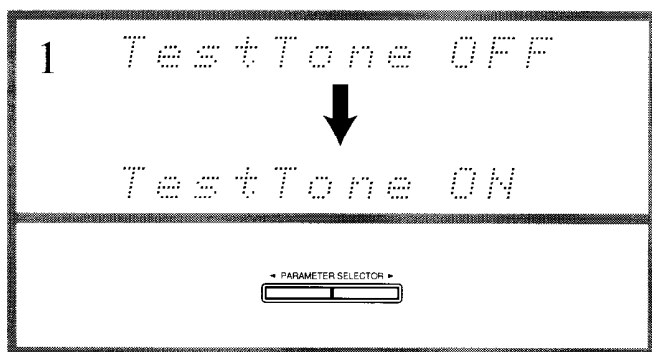
- 15 ↔ 16 ↔ ↔ 29 ↔ 30 msec

When using the cursor on the screen

Select Delay Time on the Surround Setup screen and make an adjustment with the ◀ or ▶ CURSOR buttons.



System setup (for all surround modes)



7. Level Calibration (Test Tone) for all modes

The Test Tone function

It is important to adjust the level of each channel in order to remain faithful to the film director's intentions. When this mode is turned on, calibrate the absolute sound level of each channel using the test noise. To calibrate the sound level, measure the channel level with a sound level meter (not included), in slow reading mode and C weighting, from your listening position and set the level to 75dB spl.

When the Test Tone is on, the master volume automatically sets itself to the reference position. However, when the Test Tone is turned off, the master volume automatically returns to its previous position.

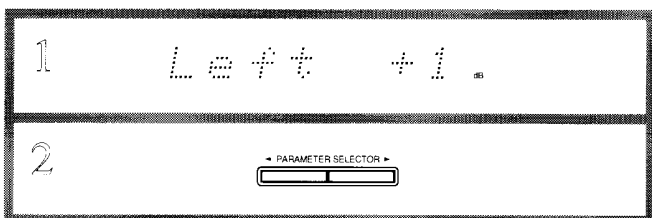
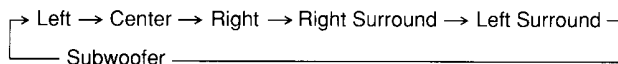
Operating the test tone using the main unit

1. Select the test tone mode.

2. Adjust the level.

When the Test Tone is turned on, the master volume is set to 0dB and the Left Level is displayed.

- The channel will change each time the PARAMETER SELECTOR ► button is pressed.



1. Adjust the level.

- The adjustment can be made from -12dB (minimum) to +12dB (maximum) by 1 dB step.

2. Turn off the test tone.

If the Parameter Selector ◀ button is pressed, the test tone will turn off no matter which channel is selected.

While making the adjustments, the test tone will automatically turn itself off if an adjustment is not made within 2 minutes.

Operating the test tone using the cursor on the screen

- Move the cursor to Test Tone and change the parameters (ON) of the items using the ▲ or ▼ CURSOR buttons.

- When the ▲ CURSOR button is pressed, the speaker whose level will be adjusted, can be chosen with the ◀ or ► CURSOR buttons.

- Press the ▼ CURSOR button to display the Level Cal. Menu and the level of each channel will be displayed. Move the cursor to the level to be adjusted and change the settings with the ◀ or ► CURSOR buttons. Press the ▼ CURSOR button to adjust the next level.

- To turn off the test tone, press the ▲ CURSOR button, then the ◀ CURSOR button.

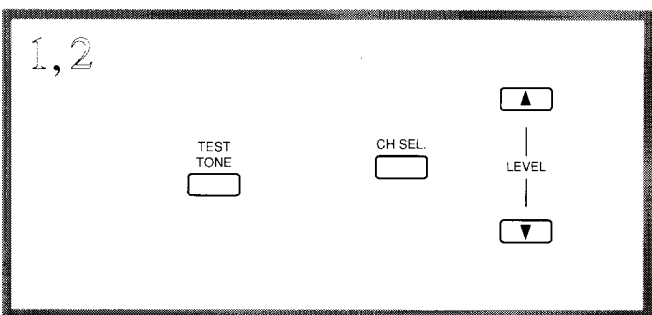
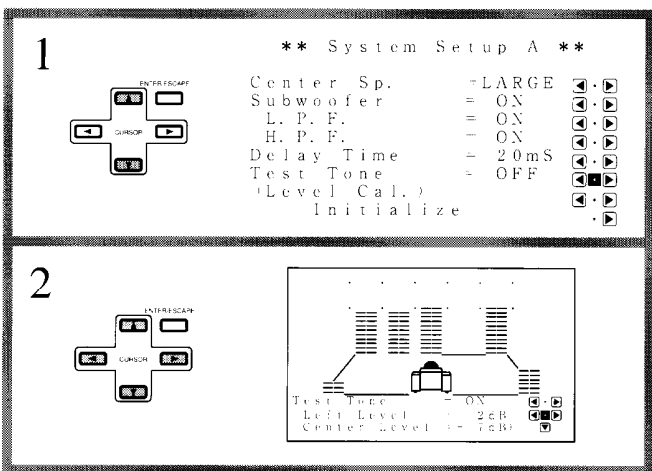
Operating the test tone using the TEST TONE button on the remote control

1. Press the TEST TONE button on the remote control.

2. Adjust the level.

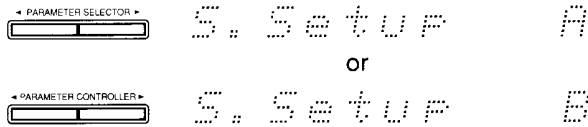
The level should be set for 75 dB C-weighted, slow mode when using a sound level meter.

After turning on the Test Tone with the TEST TONE button on the remote control and choosing a channel with the CH.SEL button, set the level with the ▲/▼ LEVEL buttons.

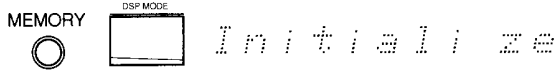


System setup (for all surround modes)

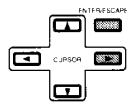
Displayed while being initialized



Displayed while being initialized.

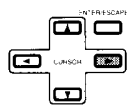


1, 2



**** System Setup A ****
Center Sp. = LARGE
Subwoofer = ON
L. P. F. = ON
H. P. F. = ON
Delay Time = 20mS
Test Tone = OFF
(Level Cal.)
Initialize

3



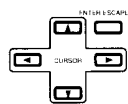
**** System Setup A ****
Center Sp. = LARGE
Subwoofer = ON
L. P. F. = ON
H. P. F. = ON
Delay Time = 20mS
Test Tone = OFF
(Level Cal.)
Initialize Yes No

8-2 MEMORY



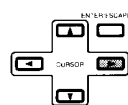
Initialize

2, 3



**** Surround Setup ****
DOLBY
Sur. Mode = PRO LOGIC
THEATER
Sur. Sp. Image = 1.0
Theater Size = 0.4
Effect Level = 1.2
Reverb Level = 1.2
Reverb Time = 1.6
Initialize

4



**** Surround Setup ****
DOLBY
Sur. Mode = PRO LOGIC
THEATER
Sur. Sp. Image = 1.0
Theater Size = 0.4
Effect Level = 1.2
Reverb Level = 1.2
Reverb Time = 1.6
Initialize Yes No

8. Initialize

Use the Initialize feature to reset the settings to their initial values adjusted using the Parameter Selector and Parameter Controller or the cursor on the screen.

8-1. Initialize of System Setup

When operating with the main unit.

Choose a System Setup A or B.

Press the DSP MODE button holding down the MEMORY button.

When operating with the CURSOR on the screen

1. Display the System Setup A screen.

2. Move the CURSOR to Initialize and press the ► cursor button.

3. Pressing the ◀ cursor button resets the settings.

8-2. Initialize of Surround Setup

When operating with the main unit

Select the Surround mode you want to initialize.

Press the DSP MODE button while holding down the MEMORY button.

“Initialize” will be shown on the display and all the settings will be reset.

When operating with the CURSOR on the screen

1. Call the menu screen by pressing ENTER/ESCAPE button.

2. Move the CURSOR to Surround Setup and press the ENTER/ESCAPE button.

3. Move the CURSOR to Initialize and press the ► cursor button.

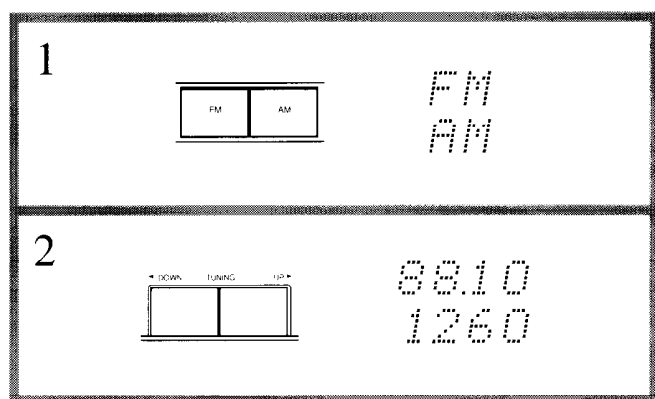
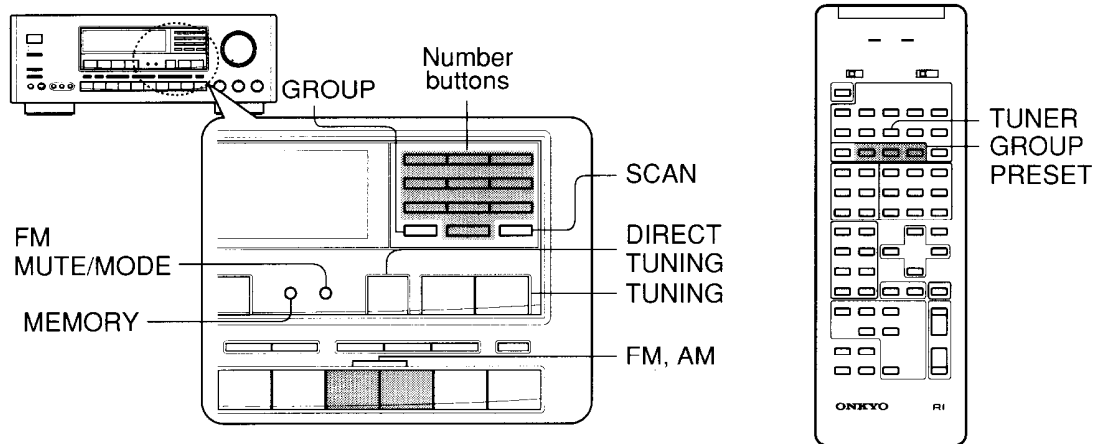
4. Pressing the ◀ cursor button resets the settings.

Initial value

Parameter Selector or On-Screen	Initial Value
Academy Mode (Mono)	OFF
Center Speaker (Mono)	ON
Center Speaker Mode	LARGE
Subwoofer	OFF
Low Pass Filter	OFF
High Pass Filter	OFF
Test Tone	OFF
Left Level	0 dB
Center Level	0 dB
Right Level	0 dB
Right Surround Level	0 dB
Left Surround Level	0 dB
Subwoofer Level	0 dB
Delay Time	20 mSEC
Surround Speakers Image	1.0
Theater Size	1.0
Hall Size	1.0
Hall Shape	1.0
Effect Level	1.0
Reverb Level	1.0
Reverb Time	1.0

Using the tuner

Please make sure that the TAPE-2 MONITOR indicator is off and audio muting is off.



Tuning the radio (Manual tuning and Direct tuning)

When the frequency is not known-Manual tuning

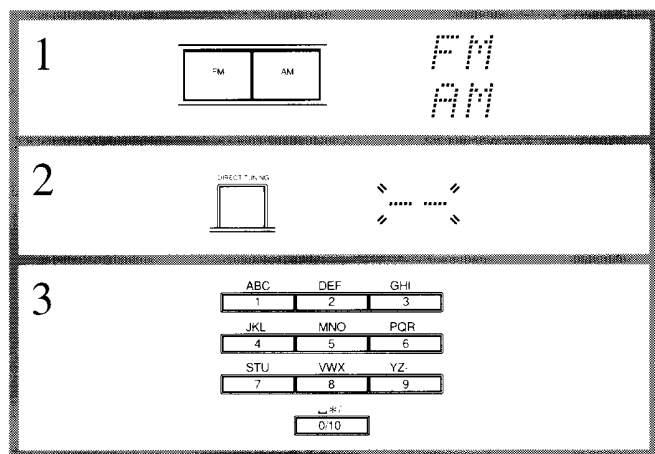
1. Press the FM or AM button.
 2. Use the ◀ DOWN TUNING UP ▶ buttons to change the frequency.
UP.....the frequency increases.
DOWN ..the frequency decreases.
- The frequency is changed in 50kHz steps in FM and 10 kHz (or 9kHz) in AM when the tuning selector button is pressed in single steps.
 - If this button is held continuously for more than 0.5 seconds, the frequencies are scanned automatically. (FM auto tuning mode)
When a broadcast is received, scanning stops.

When the frequency is known-Direct tuning

1. Press the FM or AM button.
 2. Press the DIRECT TUNING button.
- The "----" will flash 16 seconds in the frequency display.
3. Enter the frequency with the number buttons while the cursor are flashing.

Example: 88.10 MHz 8 → 8 → 1 → 0/10

- When receiving AM broadcasts with a 9 kHz step (this depending on your region), you can enter the frequency directly.
- With 10 kHz steps, entering a number for the 10 kHz digit will set the 1 kHz digit automatically to 0.
- If you enter a frequency that does not have a station, this unit will automatically tune to the next station immediately below that station.
- If you enter a frequency that is out of range, this unit will return to the previous frequency. If this happens, repeat the procedure.

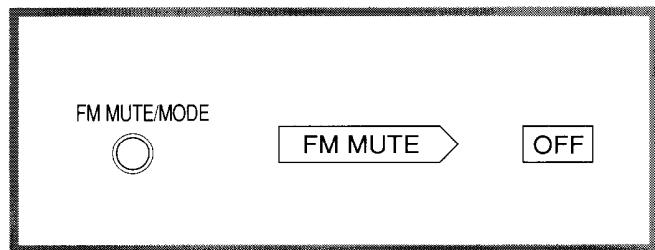


Listening to a stereo radio station (FM only)

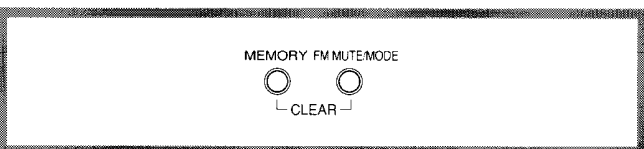
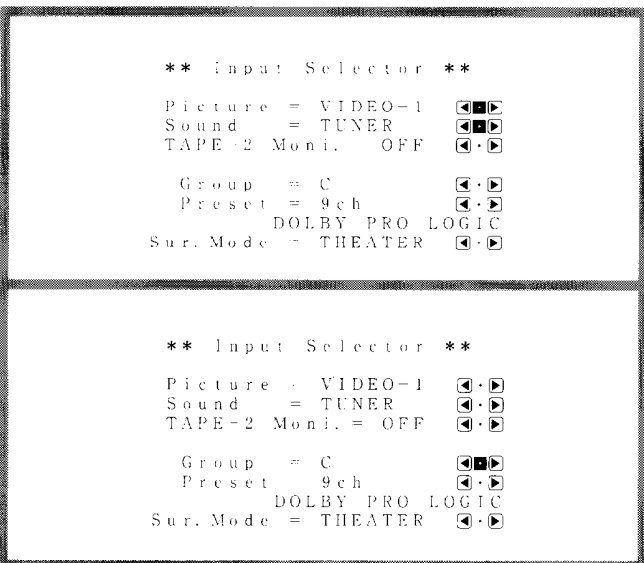
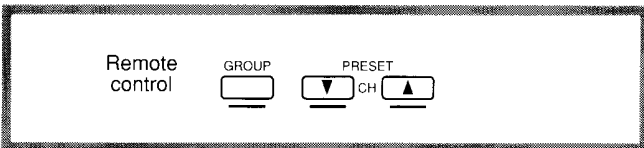
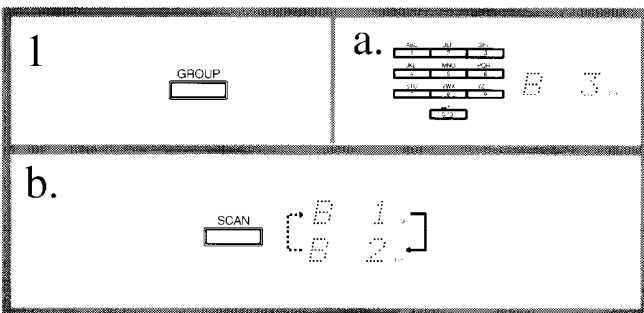
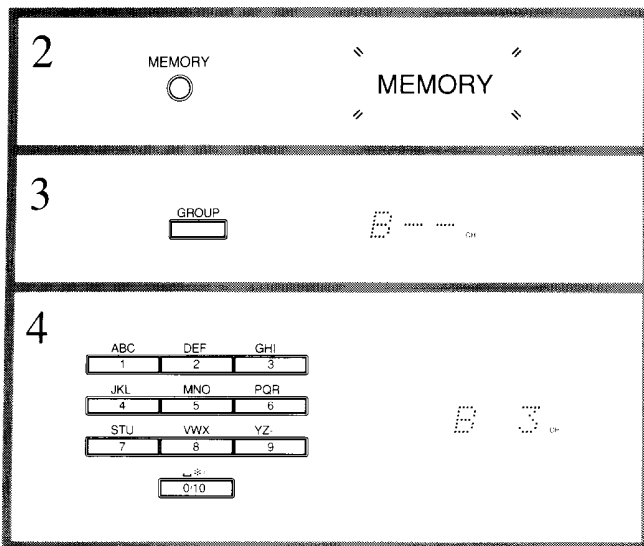
If you tune in a stereo FM station, the STEREO indicator will be illuminated if the signal is sufficiently strong.

If the signal is weak, it may be impossible to tune into your desired station. In this case, tune in as follows.

Press the FM MUTE/MODE button and FM MUTE OFF lights. At this time, the station will be in mono and interstation noise will be heard. Select the station you want listen to.



Using the tuner



Using preset stations

Since ten FM or AM stations can be stored in each group (A, B or C), a total of 30 stations can be stored in the memory.

Programming radio station

1. **Select the frequency that you want to store in the memory.**
(See page 33 Tuning the radio)
2. **Press the MEMORY button.**
 - The MEMORY indicator will light for 8 seconds.
3. **While the MEMORY indicator is lighting, press the GROUP button to choose the desired group.**
 - The group shown on the display changes in the following order each time the button is pressed: A → B → C → A.
4. **Select the desired memory number using the number buttons.**
 - Press button 0/10 when choosing memory number 10.

NOTE:

If the FM station received is an RDS station with a PS (Program Service Name), the frequency display will change to the PS display. If there is no PS, the frequency display will not change (European model)

(Refer to page 35-36 for the RDS function)

Selecting preset stations

Main unit

1. **Press the GROUP button to select the desired group.**
 - a. Input the memory number you wish to receive by using the number buttons.
 - b. Press the SCAN button.
- Each station stored in the class chosen in step 1 will be received for 5 seconds (for each station).
When the station that you want is found, press the SCAN button again and scanning will stop.

Remote control

1. **Press the GROUP button and choose the group.**
2. **Press the PRESET (▲ or ▼) button.**
After the last number of GROUP C is reached, scanning will restart at GROUP A.

On screen

1. **Press the ENTER/ESCAPE button and the MENU screen is displayed.**
Move the cursor to Input Selector and press the ENTER/ESCAPE button.
2. **Move the cursor to Sound and press the ◀ or ▶ CURSOR button to select Tuner.**
Select the desired channel using the Group and Preset buttons.
 - Group**
Indicates the current group of the TUNER preset memory (A to C). Pressing the ◀ and ▶ CURSOR buttons will change the group. When the group is changed, the number shown below the new class will indicate the last channel that was selected for that group. If there are no channels set on that group at all, that group will be skipped entirely.
 - Preset**
Indicates the channel preset for the selected group of the TUNER. Pressing the ◀ CURSOR button will change the channel downward, and pressing the ▶ CURSOR button will change the channel upward.

NOTE:

If no preset channels are set in any group, the group and preset indications will not change, as there are no presets to select.

Cancelling preset stations

1. **Select the station that you want to cancel as explained in the previous section.**
2. **Press the FM MUTE/MODE button while holding down the MEMORY Button.**
“--” will be shown on the MEMORY channel display.

Receiving RDS (European model only)

RDS reception is only available in areas where RDS broadcasts are available.

What is RDS?

Many FM stations now transmit RDS signals which give additional information. RDS provides you with various services so that (for example) you can choose a station broadcasting your favorite categories of music, or other information. The information on the right side is available on this unit.

NOTE:

In some cases, the characters displayed on the display of the TX-SV828THX may not be exactly the same as the ones broadcast by the radio station. If strange characters appear in the display, it is because characters are being received that cannot be correctly displayed by the TX-SV828THX. They do not indicate a malfunction of the unit.

PS: Program Service Name

When an RDS station broadcasting PS information is received, the name of the station will be displayed instead of the frequency.

PTY: Program Type

When an RDS station broadcasting PTY information is received, the type (category) of the broadcast will be displayed.

TP: Traffic Program

When an RDS station broadcasting TP information is received, the traffic information will be displayed.

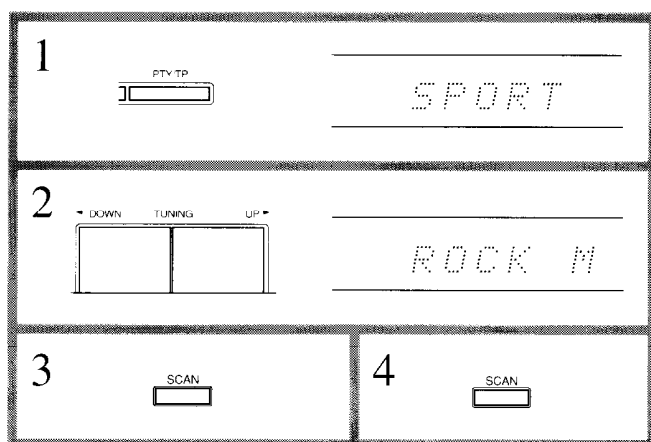
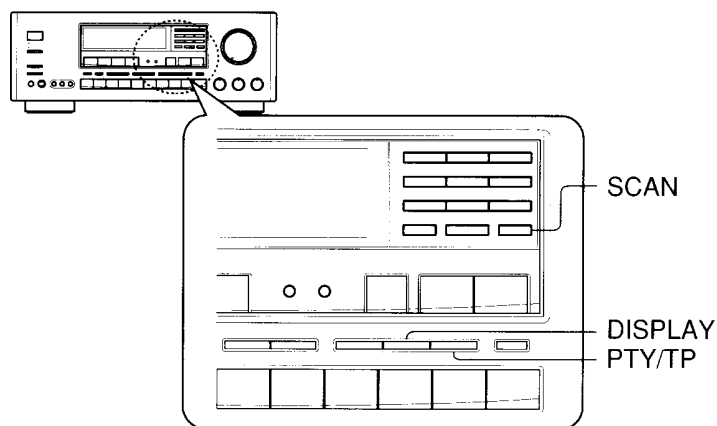
RT: Radio Text

When an RDS station broadcasting RT information is received, the information received from the station will be shown on the display.

PTY Classifications in Europe

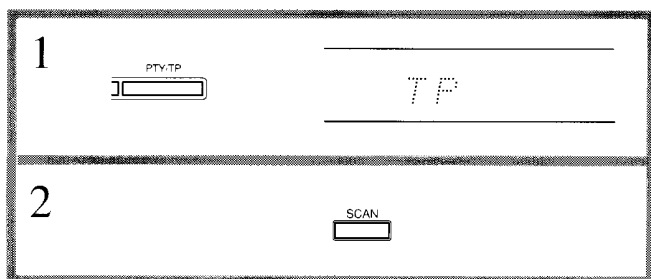
0	NONE	None	(No PTY display)
1	NEWS	News reports	Reports on current events and happenings.
2	AFFAIRS	Current affairs	Topical reporting of current affairs, often with a wider range of topics than news reports.
3	INFO	Information	General information such as weather forecasts, consumer affairs, medical help etc.
4	SPORT	Sport	Live sports action, sports news and interviews.
5	EDUCATE	Education	Formal educational programs.
6	DRAMA	Drama	Radio plays and serials
7	CULTURE	Culture	Cultural programs (including religious affairs)
8	SCIENCE	Science and technology	Programs about the natural sciences and technology.
9	VARIED	Varied	Speech based programs not covered by the above categories eg. quizzes, panel games, comedy, etc.
10	POP M	Pop music	Popular commercial music, usually included in past or present sales charts.
11	ROCK M	Rock music	Popular music with a more specialist appeal, often not included in sales charts.
12	M O R M	Middle of the road music	Easy listening music as opposed to Pop, Rock or Classical.
13	LIGHT M	Light classics	Classical music for general rather than specialist appreciation.
14	CLASSICS	Serious classics	Performances of major orchestral works, symphonies, chamber music etc. and including Grand Opera.
15	OTHER M	Other music	Music styles not covered by the above categories, eg. Jazz, Rhythm & Blues, Folk, Country, Reggae.

Receiving RDS (European model only)



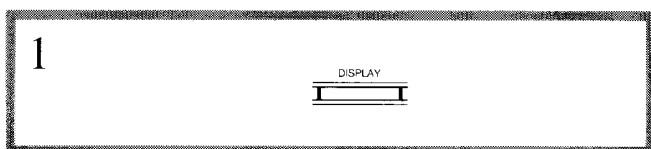
How to search for a station which broadcasts your favorite category (PTY scan)

1. Press the **PTY/TP** button, to select "PTY".
If the station you are receiving is not broadcasting RDS, "Not RDS" (this is not an RDS station) will be shown on the display.
2. Use the **◀ DOWN TUNING UP ▶** buttons to select the program type (PTY) (for example, "ROCK M").
See the PTY description on the previous page.
3. Press the **SCAN** button to start searching for the chosen PTY station.
When a station is received with the desired PTY, the scanning stops for approximately 5 seconds, before the unit starts scanning again.
4. When the desired station is reached, press **SCAN** button again to stop scanning.



Receiving RDS traffic information

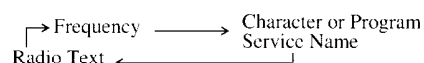
1. Press the **PTY/TP** button to select "TP".
If **TP** is shown on the display, it indicates that the current station is broadcasting traffic information.
2. Press the **SCAN** button to start searching for a TP station.
When the unit receives a TP station, it stops scanning. If the unit cannot receive any TP station, "Not find" (cannot find the station) is shown on the display.



Displaying Radio Text (RT)

If the station you are listening to is not an RDS station, this function cannot be used.

1. Each time you press the **DISPLAY** button, the display changes as follows.



If the current station you are listening to is not an RDS station, only the frequency of the station and the characters (see pages 37) appears. (If there have been no characters entered, only the frequency is shown.)

When RT is received, it can sometimes take up to 15 seconds (more or less) to show RT on the display.

Sometimes the following messages will be shown on the display.

Wait: indicates that it requires more time to receive the RT information. When the information is received, the characters will scroll across the display.

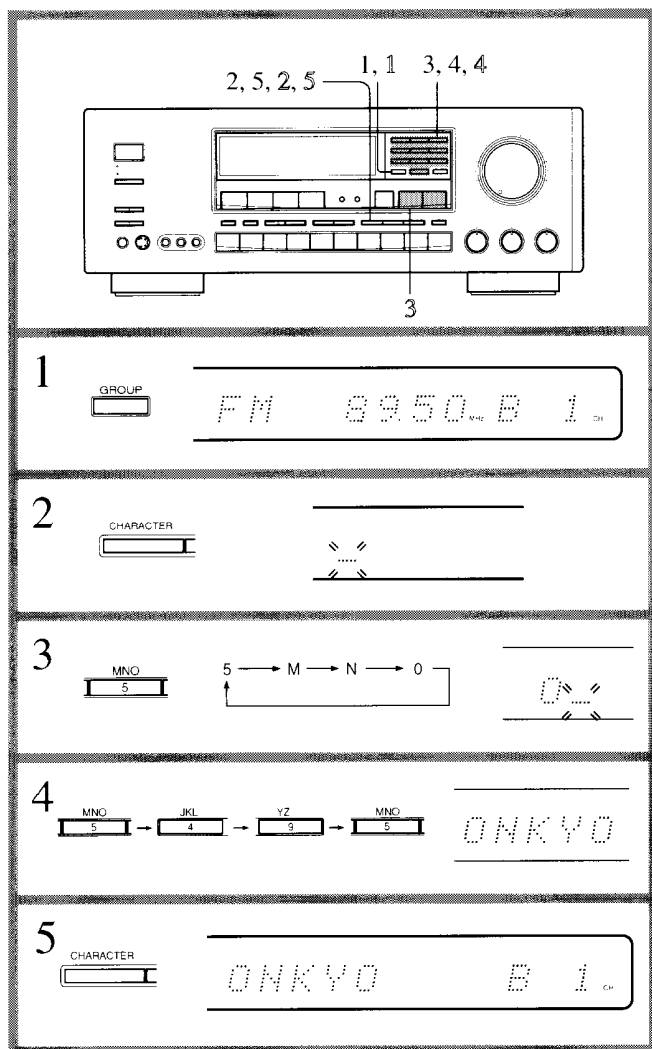
No text: this appears for 3 seconds and indicates that even though an RDS station is being received, there is no RT information included.

Entering station names

Characters can be entered during reception of an FM or AM broadcast station.

This function enables you to memorize a maximum of 8 characters consisting of letters, some symbols and numbers, for instance, representing broadcasting names, for each preset station.

If you attempt to enter characters while receiving an FM broadcast RDS station, "RDS...PS" is displayed and characters cannot be entered. (european model only)



Characters which can be input

A B C D E F G H I J K L M N O P Q R S T U V W X Y
Z 1 2 3 4 5 6 7 8 9 0 - _ * /

Note: _ indicates a space.

Entering new characters

To name 1CH of GROUP B as "ONKYO", for example, operate as follows. (Example: FM broadcast at 89.50 MHz has been memorized into 1CH of GROUP B).

1. Press the GROUP and number button.

The memorized broadcast station is received.

2. Press the CHARACTER button.

The frequency in the display goes off and "_" flashes.

3. To enter O from "ONKYO", press the 5MNO button.

Pressing the button each time changes the character from 5 to M, N, and O, one at a time. Select O.

- "_" will move to the next character. (If you do not press the number button for one second or more, "_" will automatically move to the next position.)

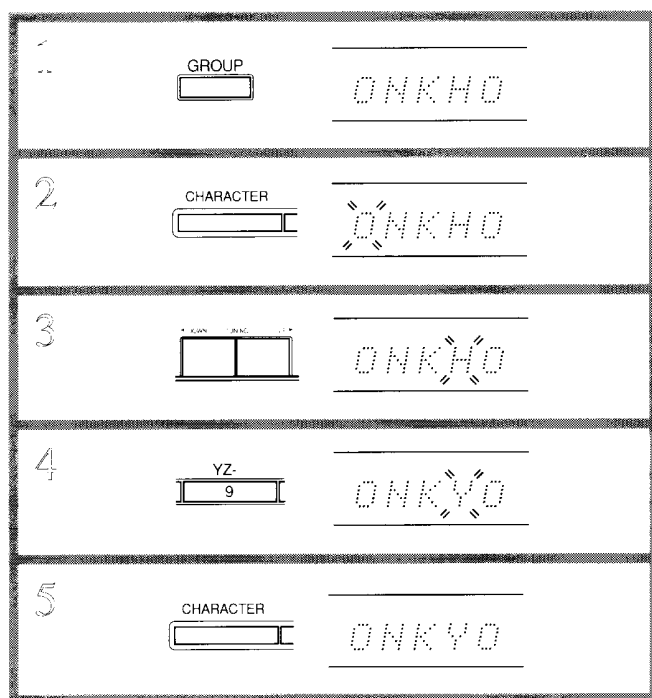
- When you want to delete a character, press the DIRECT TUNING button. The character is deleted, and the characters on the right move to the left by one space.

4. Repeat step 3.

To enter N from "ONKYO", press the 5MNO button and select N. To enter K from "ONKYO" press the 4JKL button and select K.

5. Press the CHARACTER button.

If you have not pressed a button for 16 seconds, the operation will complete automatically.



Clearing all of the characters stored in memory

1. Press the CHARACTER button.

2. While pressing the MEMORY button, press the FM MUTE/MODE button.

All the characters entered for this station will be cleared.

Changing existing characters

1. Press GROUP buttons to recall the desired preset number.

2. Press the CHARACTER button.

"_" appears below the first character and the two begin flashing.

3. Press the ◀ DOWN TUNING UP ▶ button and move "_" to the character you want to change.

"_" moves to the right when pressing the UP ▶ button and moves to the left when pressing the ◀ DOWN button.

4. Enter the desired character.

The previous character is replaced with a new character.

5. Press the CHARACTER button.

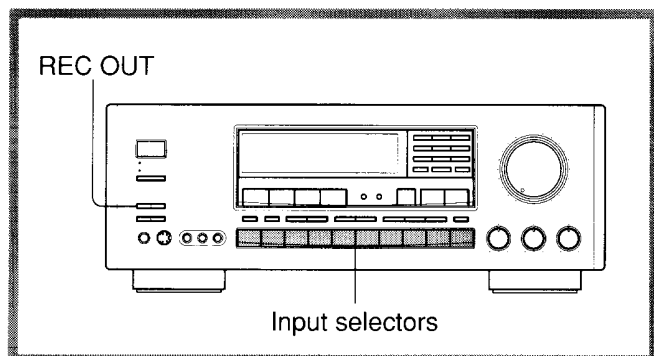
Recording a source

Recording an audio source

Tape recording

With this unit you can perform recording while listening to the sound of another source through speakers or headphones. Make all connections between the tape deck and the unit as shown in the System Connections diagram (page 10).

When recording a tape while the Multiple Room Remote Control is connected, turn the MR off (the MR OFF indicator will light) to disable remote control operation from another rooms.



Recording and dubbing to a tape deck connected to TAPE-1

a. When recording the same source you are listening to Main unit

1. Press the input selector button to select the source to be recorded. (Other than TAPE-1)
 2. Press the REC OUT button.
 3. Press the REC OUT button again while the REC OUT indicator is flashing.
- The SOURCE and the source you have chosen will be displayed in red boxes. (*)
4. Start the device selected in step 1 while setting the tape deck connected to TAPE-1 to recording mode.

On screen

1. Select the Rec Selector screen from the Menu screen.
2. Move the cursor to Rec Selector and Press the ◀ and ▶ CURSOR button to select SOURCE.

Rec Sel:

Indicate the recording selector. When you press the ◀ or ▶ CURSOR buttons, the recording source of the sound and the picture will change.

Picture, Sound:

Indicates which picture and sound sources are available to be recorded, and which devices are available up record onto.

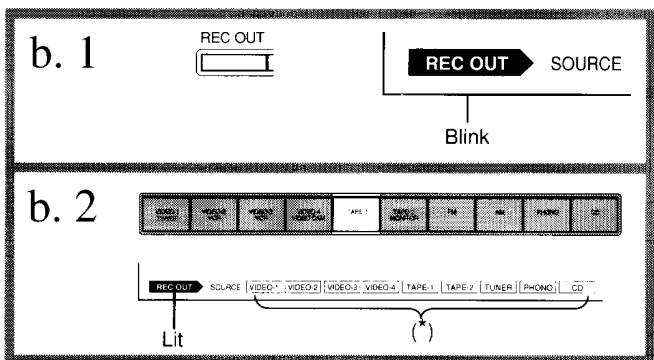
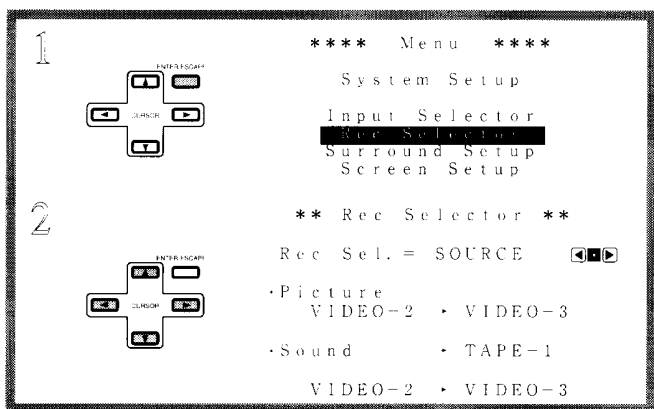
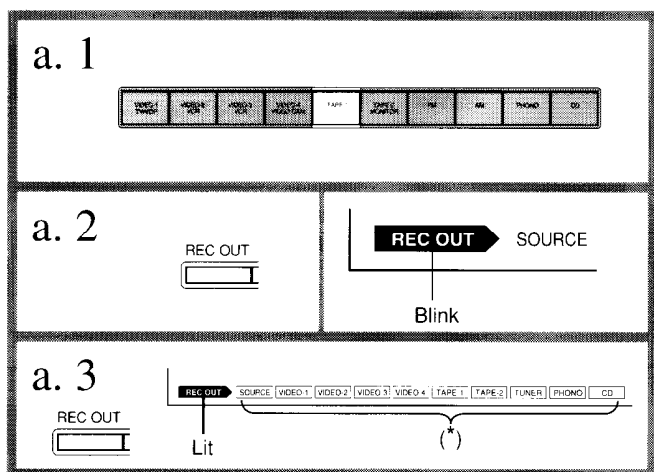
For example (See the diagram at the left.)

The recording source for the Picture is VIDEO-2, and this source can only be recorded to VIDEO-3.

The recording source for the sound is VIDEO-2, and this source can only be recorded to devices connected to TAPE-1 or VIDEO-3.

NOTE:

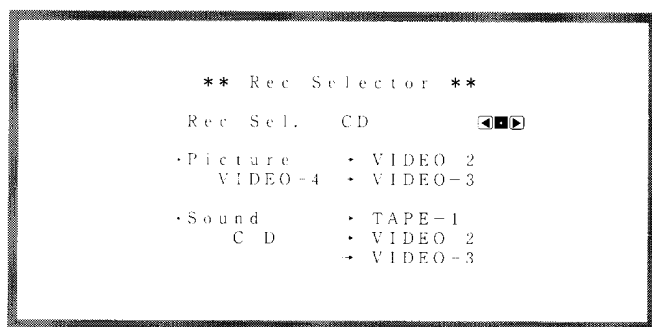
- Never change the positions of any controls on this unit during recording and dubbing operations.
- Pressing the input selector button during recording will change the source being recorded.
- When the TAPE-2 MONITOR indicator is on, only TAPE-2 can be recorded and if the input selector is changed, the TAPE-2 MONITOR indicator will not change.



b. When recording a source different from the one you are listening to

1. Press the REC OUT button.
 2. Press the input selector button for the source to be recorded, (Other than TAPE-1) while the REC OUT indicator is flashing.
- The chosen source will be displayed in a red box. (*)
3. Start the device selected in step 2, and start recording on the tape deck connected to TAPE-1, or on any recording device connected to the VIDEO-2 or VIDEO-3 audio output jacks.

Recording a source

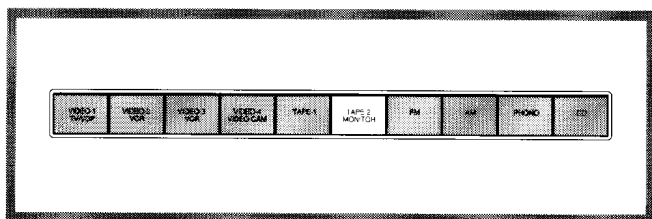


On screen

1. Select the Rec Selector screen from the Menu screen.
2. Move the cursor to Rec Selector and press the ◀ and ▶ CURSOR buttons to select the source to be recorded.

NOTES:

- The source you selected to record will be output from the TAPE-1, VIDEO-2 and VIDEO-3 REC OUT jacks. The source you are listening to does not change.
- If you choose to record from FM or AM while listening to another source, the tuner's frequency and group displays will be shown for 3 seconds.

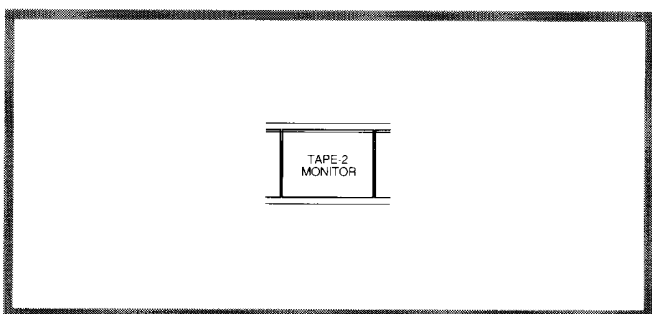


Recording and dubbing to a tape deck connected to TAPE-2

1. Press the input selector button of the source to be recorded. (Other than TAPE-2)
2. Start playing back the device selected in step 1, and start recording on the tape deck connected to TAPE-2.

NOTES:

- When the TAPE-2 MONITOR is off, any source signals can be monitored through the speakers or the headphones (this is normal operation).
- If tape deck 2 is 3-head type however, you can monitor the recording directly of the tape by turning TAPE-2 MONITOR on. Refer to the tape deck instruction manuals for more details. Set the recording level using the controls on the tape deck used for recording.



Using the graphic equalizer

1. Connect the graphic equalizer to the TAPE-2 jacks on the rear panel.
2. If a second tape deck is used, connect it to the tape jacks on the graphic equalizer.
3. Press the TAPE-2 MONITOR button to turn on the TAPE-2 MONITOR indicator.

Follow the graphic equalizer operation instructions.

To record an equalized signal, use the tape deck (connect to the equalizer) for recording.

CAUTION:

- Use graphic equalizer in BY-PASS mode only. (Two channel stereo)
- Do not use surround modes and equalizer together. It will result in distortion and possible damage to decoder circuitry.

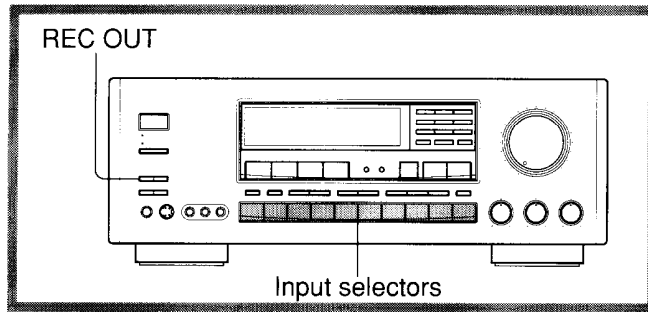
Recording a source

VCR recording

Date can be recorded from video-disc players, video cassette recorders connected to VIDEO-2 and 3.

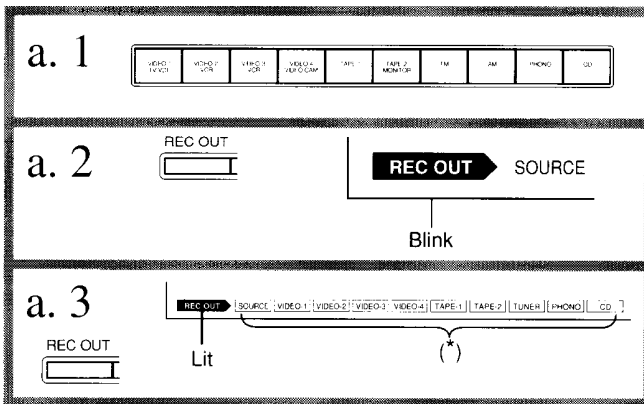
Connect the VCR to VIDEO-2, and/or VIDEO-3.

Refer to each instruction manual for information concerning video-disc players, video camcorders, video cassette recorders and monitor TV



NOTES:

- Do not change the REC selector setting while recording is in progress.
- Certain combinations of video input and output connections will allow sound recording, but not picture recording. Input via the normal video connector cannot be recorded via the S connector. Especially if the program to be recorded is important, take a few moments to double check the video connections. (See page 11, 12)



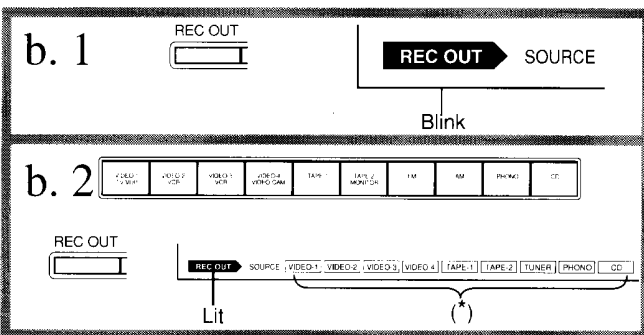
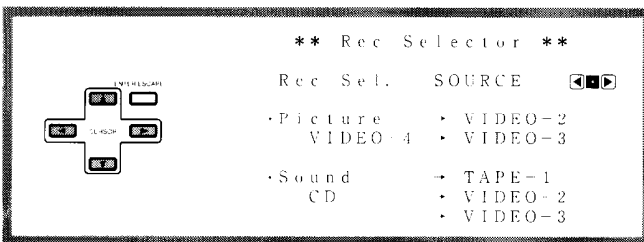
Recording to VIDEO-2 and VIDEO-3

a. Recording the source being played back.

- Select the source to be recorded with the input selector buttons.
- Press the REC OUT button.
- Press the REC OUT button again while the REC OUT indicator is flashing.
The SOURCE and the source you have chosen will be displayed in red boxes. (*)
- Start the source selected in step 1, and start recording on the VCR connected to VIDEO-2 and/or VIDEO-3.

On screen

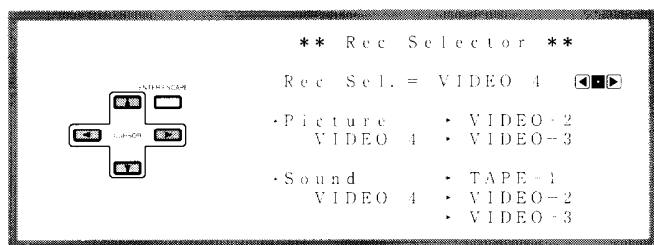
- Select the Rec Selector screen from the Menu screen.
- Move the cursor to Rec Sel and press the ◀ and ▶ CURSOR button to select SOURCE.



b. Recording a source different from the one being played back

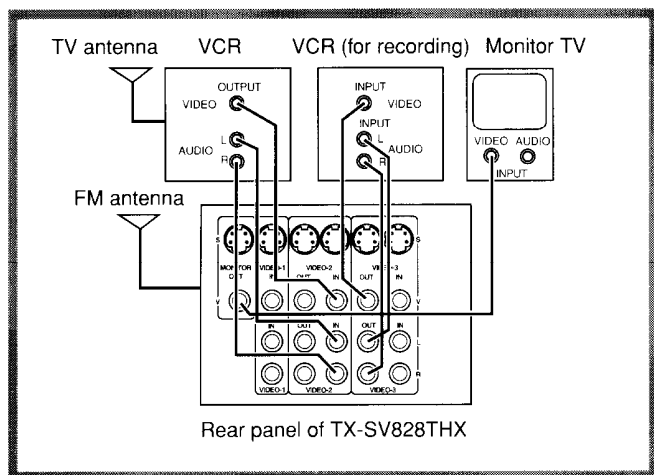
- Press the REC OUT button.
- Press the input selector button of the source to be recorded while the REC OUT indicator is flashing.
The chosen source will be displayed in a red box. (*)
- Start the source selected in step 2, and start recording on the VCR connected to VIDEO-3.

Recording a source



On screen (Refer to page 22)

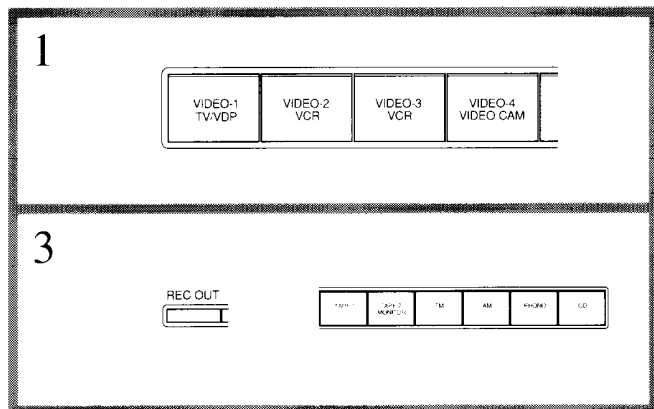
1. Select the Rec Selector screen from the Menu screen.
2. Move the cursor to Rec.Sel and press the ◀ and ▶ CURSOR buttons to select the source to be recorded.



Playback and recording of TV picture and FM/CABLE TV sound

Recording of a TV broadcast and FM broadcast (simulcast) is possible when two VCR are used.

1. Receive the TV broadcast using the VCR tuner.
2. Press the VIDEO-2 or -3 input selector to set the picture to VIDEO-2 or -3.
3. Press the FM Input Selector and tune in the FM simulcast using a preset button or the tuning selectors.
The picture will be sent to the monitor TV and the FM stereo sound to the speakers connected to this unit.
4. To record the TV picture with FM sound, receive the TV broadcast using one VCR (connected to VIDEO-2 (or 3)) and begin recording on the other VCR (connected to VIDEO-3 (or 2)).
The program can be monitored during recording.



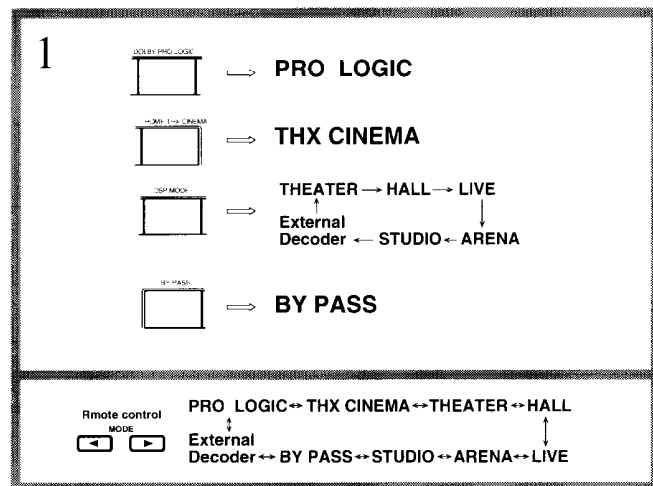
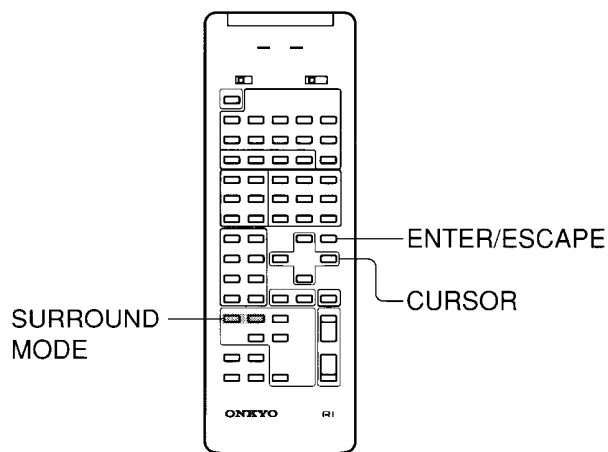
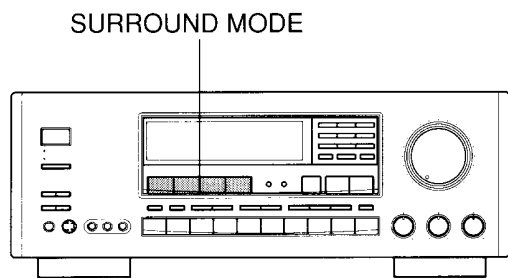
Mixing video and audio for VCR recording

1. Press the Input Selector button to select the VCR (VIDEO-1, 2, 3 or 4) that will be used to play the video.
2. Press the REC/PAUSE button on the VCR (VIDEO-2 or 3) that will be doing the recording.
3. Press the REC OUT button.
4. Press the Input Selector button (CD, PHONO, FM, AM, TAPE-1, or TAPE-2) that will provide the audio source.
The picture will be left as is. Only the audio will be changed.
5. Start operation of the equipment.
The picture will be recorded from the video source, and the sound from the audio source.

Using the Surround Modes

(Basic operation of Surround Modes)

Before listening to the Surround mode, be sure the System Setup Parameters have been set. If the parameters have been set once, it is not necessary to set them again.

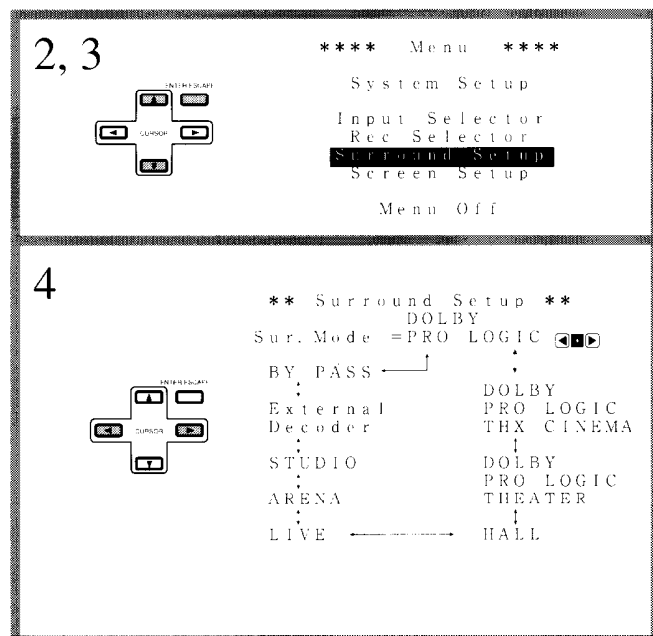


Operating Surround

1. Press the **DOLBY PRO LOGIC** button to select Dolby Pro Logic surround mode.
Press the **HOME THX CINEMA** button to select HOME THX CINEMA surround mode.
Press the **DSP MODE** button to select Theater, Hall, Live, Arena, Studio and External decoder surround mode.
When you are not playing in surround:
Press the **BY-PASS** button on the main unit

Using the remote control, press the **SURROUND MODE** button to select surround mode.

- Each time the button is pressed the mode changes as pictured and is shown in the display section.
- Each mode has a number of details (parameters) which affect the sound of the mode.



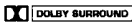
Operating with the cursor buttons on the screen

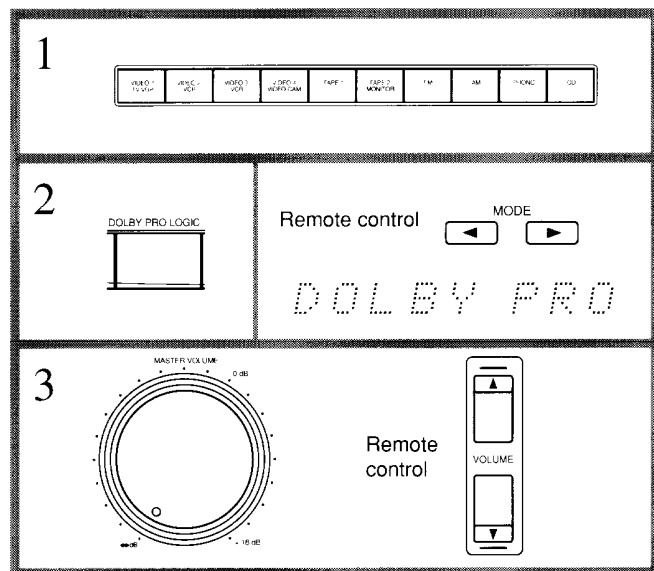
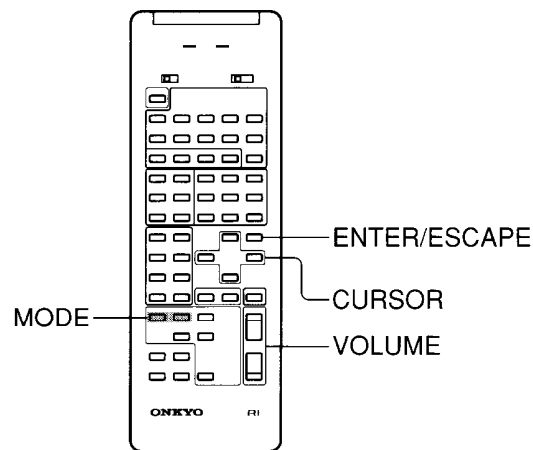
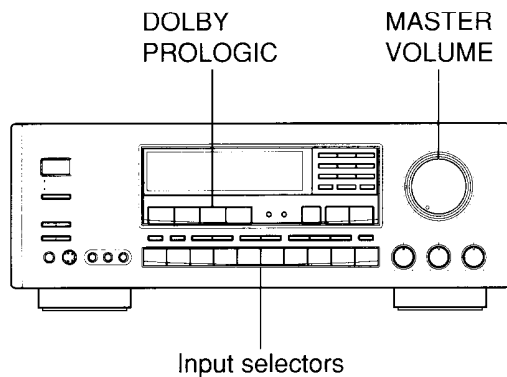
1. Press the **ENTER/ESCAPE** button to call the menu screen.
2. Press the **▲** or **▼** **CURSOR** buttons to set the cursor to Surround Setup.
3. Press the **ENTER/ESCAPE** button.
 - The screen for selecting Surround Setup will open.
4. Press the **◀** or **▶** **CURSOR** buttons to change the Surround mode.
5. Pressing the **ENTER/ESCAPE** button will return you to the menu screen.

Using the Surround Modes

(Using the Dolby Pro Logic Surround Mode)

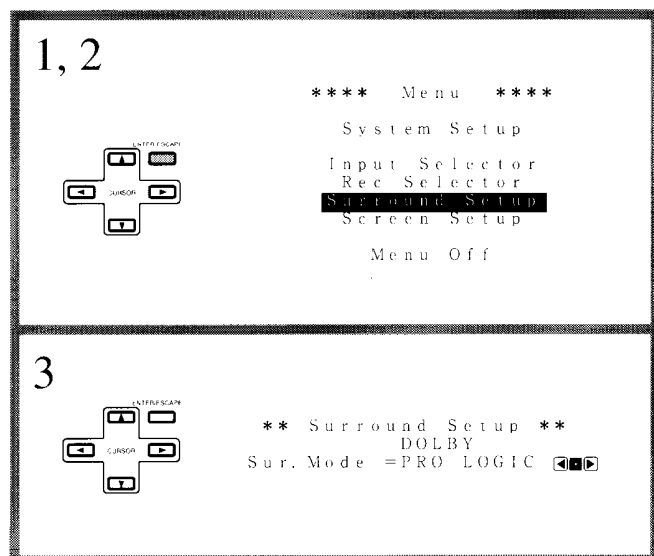
Dolby Pro Logic

By using video tape and laser discs with the  trade mark, you can decode four channel surround sound.



Operating with the main unit

1. Select a source encoded with Dolby surround.
2. Press the DOLBY PRO LOGIC button.
Using remote control, press the SURROUND MODE button to select the Dolby Pro Logic surround mode.
3. Use the MASTER VOLUME to set the volume to the desired listening position.



Operating with the cursor on the screen using the remote control

1. Press the ENTER/ESCAPE button to call the menu screen.
2. Move the cursor to Surround Setup and press the ENTER/ESCAPE button.
3. Alter the Sur. mode to Dolby Pro Logic.

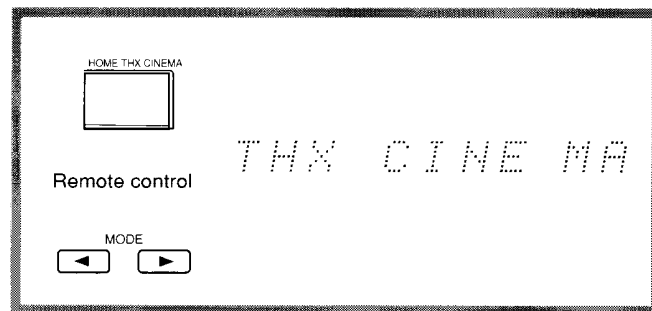
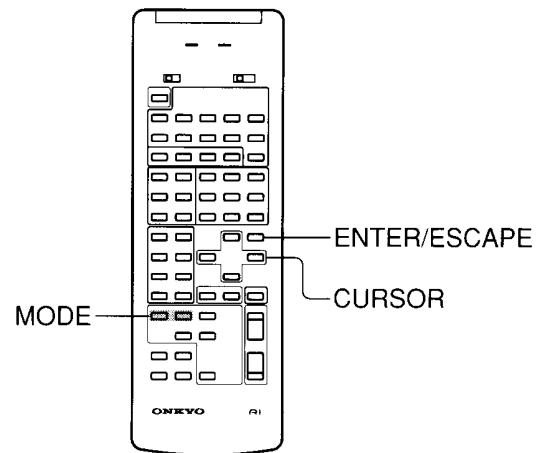
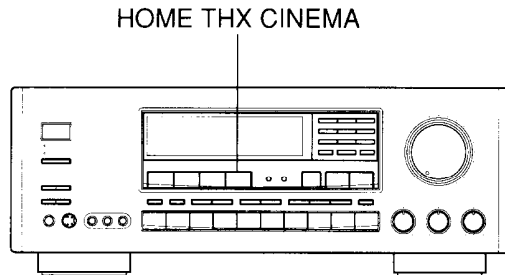
Using the Surround Modes

(Using the Home THX Cinema Surround Mode)

HOME THX CINEMA

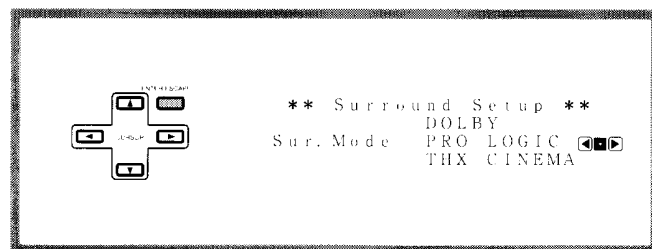
By using video tapes and laser discs with the  trademark, you can recreate in your own living room the feeling of watching a movie in a great theater.

The THX Cinema mode should be used primarily for motion picture films.



Operating with the main unit

1. Select a source encoded with Dolby surround.
2. Select the HOME THX CINEMA Surround mode.



Operating with the cursor on the screen using the remote control

1. Press the ENTER/ESCAPE button to call the menu screen.
2. Move the cursor to Surround Setup and press the ENTER/ESCAPE button.
3. Set the Sur. Mode to DOLBY PRO LOGIC THX CINEMA.

The THX Cinema mode engages several processing features.

They offer the following benefits;

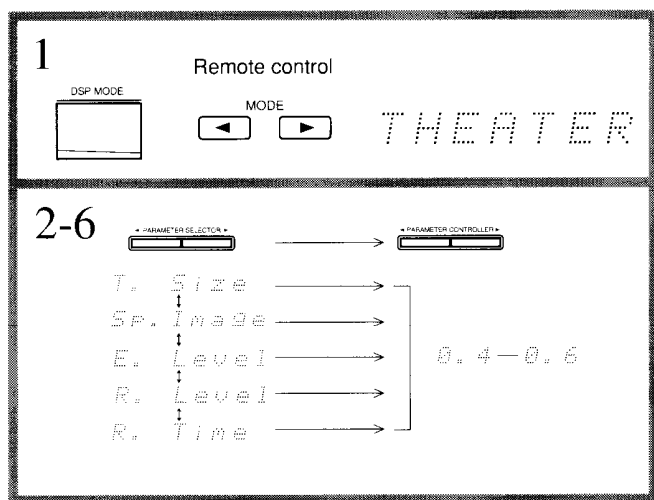
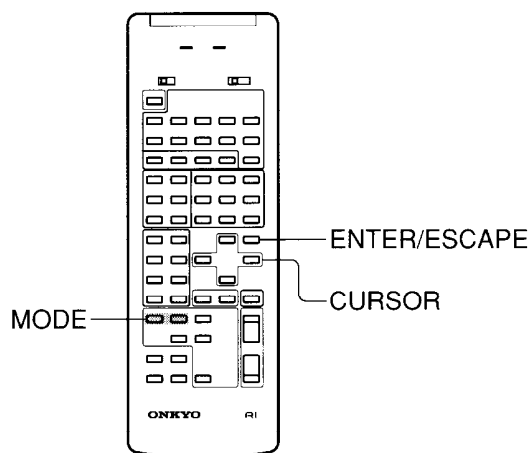
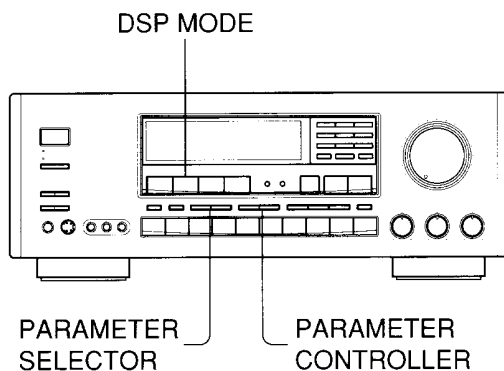
- a. Re Equalization™ – Corrects Over-Bright Front Channel Sound of Film Soundtracks
- b. Surround Timbre Match™ – Smoothes Front-to-Surround Pans
- c. Surround Decorrelation™ – Enhances Surround Spaciousness and Envelopment

Using the Surround Modes

(Using the Theater Surround Mode)

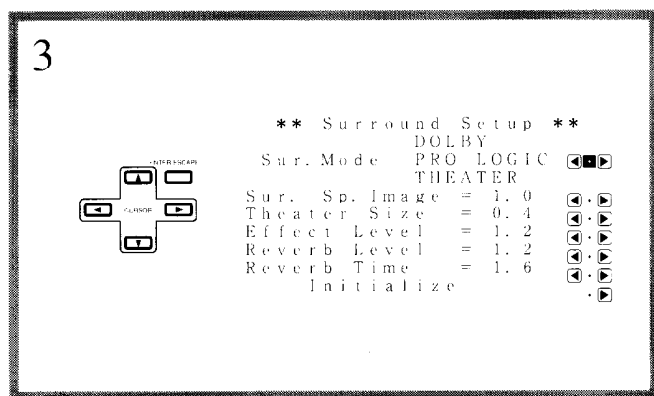
Theater

There are many surround speakers in an actual theater. Use this mode for creating a theater atmosphere. This mode is suitable for playback of media recorded with Dolby Surround.



Operating with the main unit

1. Use the DSP MODE button to select Theater.
 - Each time the DSP button is pressed the mode changes.
2. Adjust the Surround speakers image. (Explanation 1, page 49)
3. Select Theater size. (Explanation 2, page 49)
4. Adjust the effect level. (Explanation 3, page 50)
5. Adjust the Reverb level. (Explanation 3, page 50)
6. Adjust the Reverb time. (Explanation 3, page 50)



Operating with the cursor on the screen using the remote control

1. Press the ENTER/ESCAPE button to call the menu screen.
2. Move the cursor to Surround Setup and press the ENTER/ESCAPE button.
3. Set the Sur. Mode to DOLBY PRO LOGIC THEATER.
4. Select the simulate position of the Surround Speakers image. (Explanation 1, page 49)
5. Select the Theater Size. (Explanation 2, page 49)
6. Adjust the Effect Level, Reverb Level and Reverb Time. (Explanation 3, page 50)
7. Pressing the ENTER/ESCAPE button on the remote control brings you the menu screen.

Using the Surround Modes

(Using the Hall, Live, Arena and Studio Surround Modes)

Hall

Simulates the atmosphere of a concert hall. Intended for classical music.

Live

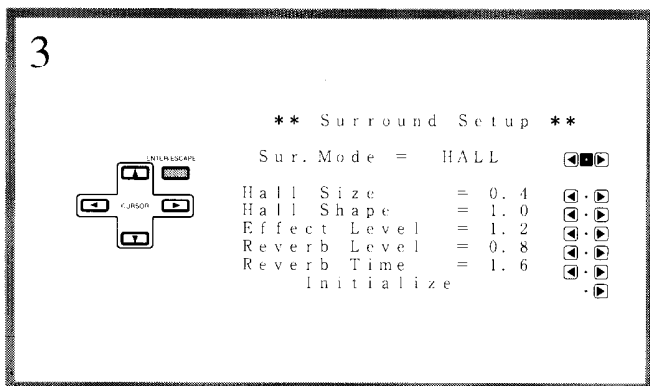
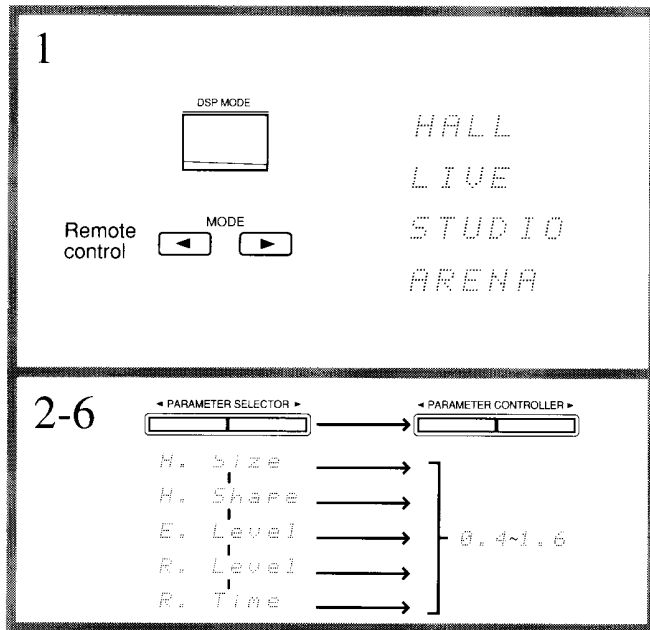
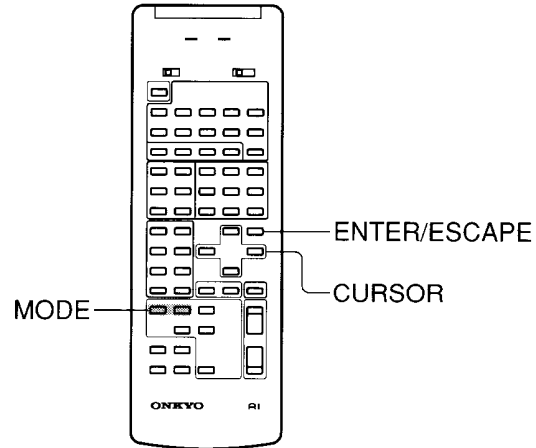
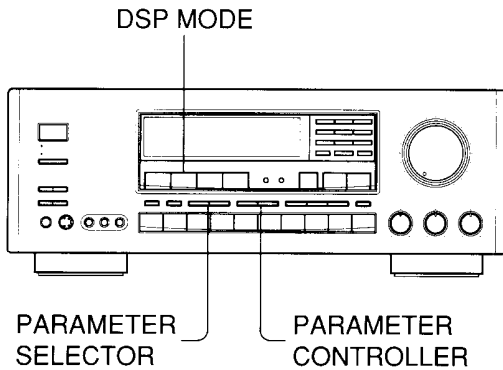
Reproduces the feeling of a live performance.

Arena

This mode recreates the feel of listening to a pop concert in a domed stadium.

Studio

This mode is suitable for media (CD, LD) with live recorded music.



Operating with the main unit

1. Use the DSP MODE button to select either Hall, Live, Arena or Studio.
2. Select Hall size. (Explanation 2, page 49)
3. Select Hall shape. (Explanation 4, page 50)
4. Adjust the effect level. (Explanation 3, page 50)
5. Adjust the reverb level. (Explanation 3, page 50)
6. Adjust the reverb time. (Explanation 3, page 50)

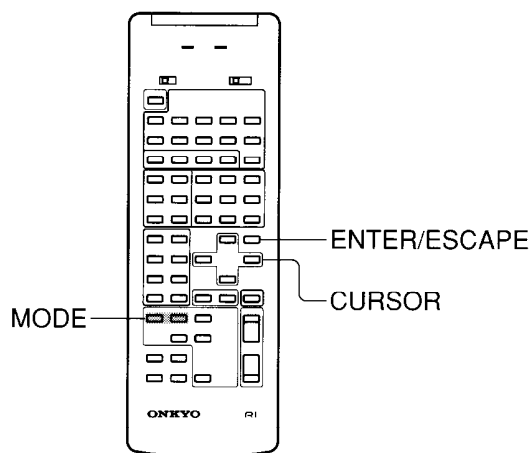
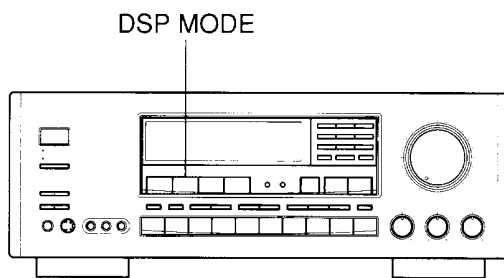
Operating with the cursor on the screen using the remote control

1. Press the ENTER/ESCAPE button to call the menu screen.
2. Move the cursor to Surround Setup and press the ENTER/ESCAPE button.
3. Set the Sur.Mode to either HALL, LIVE, ARENA or STUDIO.
4. Select the Hall Size. (Explanation 2, page 49)
5. Select the Hall Shape. (Explanation 4, page 50)
6. Adjust the Effect Level, Reverb Level and Reverb Time. (Explanation 3, page 50)
7. Pressing the ENTER/ESCAPE button on the remote control brings you the menu screen.

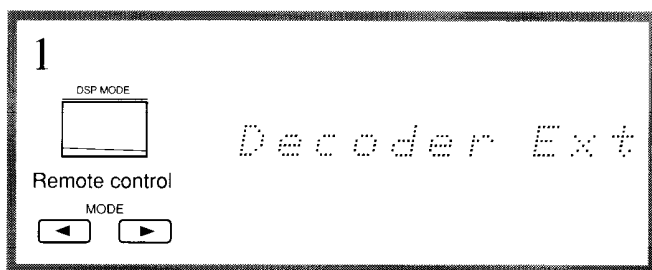
Using the Surround Modes

(Using the External Decoder Mode)

When a Dolby Surround Digital Decoder with the AC-3 format developed by Dolby Laboratories Inc. is connected, it can be used as a power amplifier that is able to adjust the levels of the Front Left, Center, Right, Left Surround, Right Surround and Subwoofer speakers by connecting the decoder's analog output to the external decoder input terminal on the TX-SV828THX (The Subwoofer is the Pre out). (See page 17.)

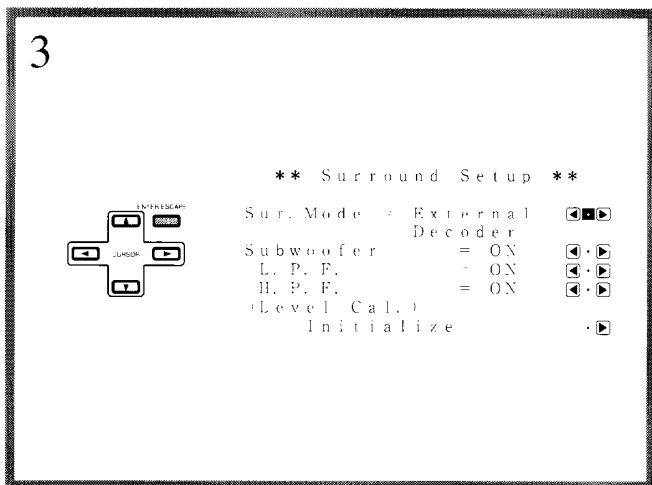


1. Connect the Dolby Surround AC-3 Decoder.
2. Adjust the settings on the Decoder according to the Decoder's instruction manual.
3. Adjust the TX-SV828THX's External Decoder Input setting. When using the external decoder, connect the video input to VIDEO-1.



Operating with the main unit

1. Press the input selector VIDEO-1 button.
2. Use the DSP MODE button to select External Decoder mode.
3. Next, use the MASTER VOLUME to set the volume to desired listening position.
4. Use the CH. SEL. LEVEL ▲ and ▼ buttons on the RC-307M remote control when readjusting the speakers' levels using the Dolby Surround AC-3 Decoder's test tone.



Operating with the cursor on the screen using the remote control

1. Press the input selector VIDEO-1 button.
2. Press the ENTER/ESCAPE button to call the menu screen.
3. Move the cursor to Surround Setup and press the ENTER/ESCAPE button.
4. Set the surround mode to External Decoder.
5. Next, use the MASTER VOLUME to set the volume to the desired listening position.
6. Pressing the ENTER/ESCAPE button on the remote control brings you the menu screen.

NOTES:

- You are not able to record from the external decoder to Tape-1 or 2 or Video-2 or 3.
- If the Subwoofer, L.P.F. and H.P.F. channel levels are not readjusted in step 4, the System Setup settings will be used.

Using the Surround Modes

(Using a Monaural Source with the By-Pass Mode)

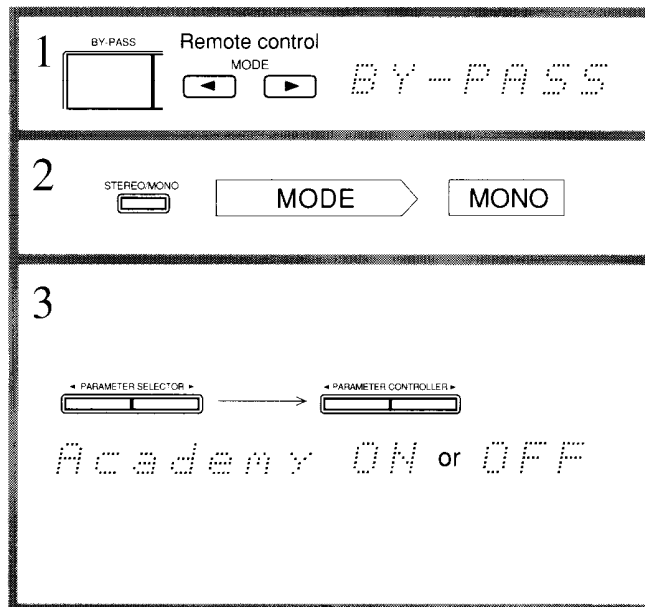
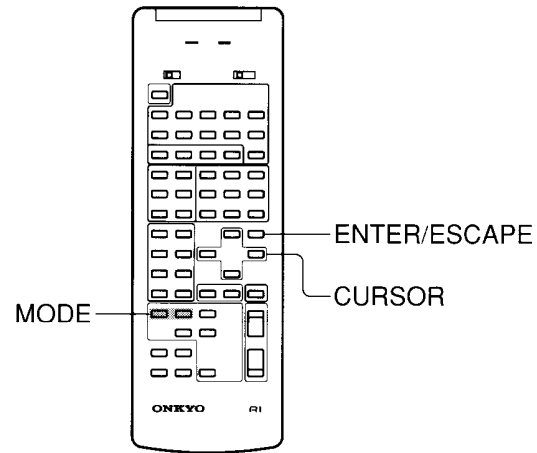
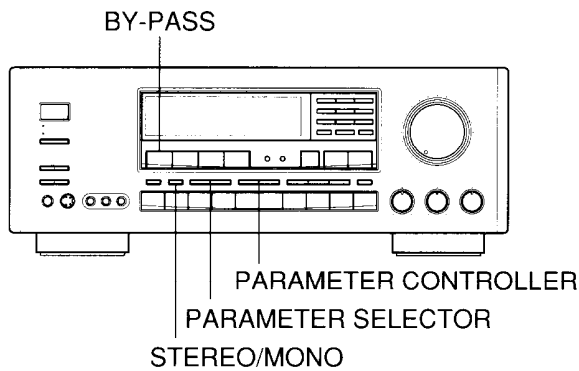
BY-PASS

This produces no mode Surround effects. All input sound is output from the Center speaker if MONO is selected.

When MONO is chosen from the STEREO/MONO mode, the Academy filter can be turned on or off when watching old movies that are not in stereo.

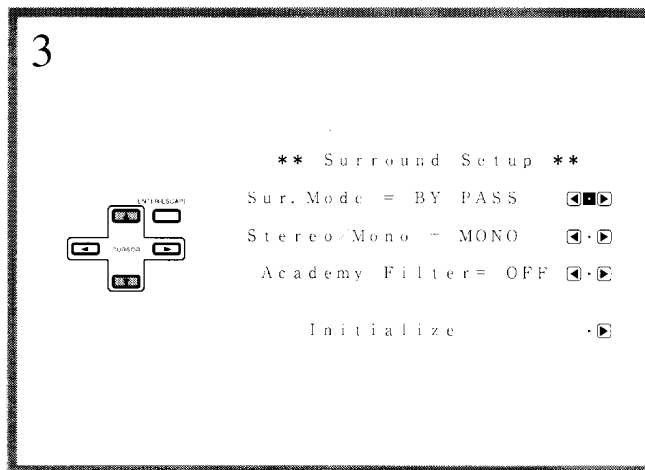
NOTE:

If you have a graphic equalizer hooked up into TAPE-2 MONITOR, you may enhance your tonal control by selecting TAPE-2 MON. and using the equalizer. (BY-PASS only).



Operating with the main unit

1. Press the BY-PASS button to select BY-PASS mode.
2. When using a monaural source, press the STEREO/MONO button and select MONO. (Explanation 5, page 50)
3. Turn the Academy Filter on. (Explanation 6, page 50)
 - The Center Sp. setting in System Setup determines the speaker that will output the monaural sound. When Center Sp. is set to LARGE or SMALL, the sound comes from the center speaker; however, when Center Sp. is set to NONE, the sound is output from the front left and right speakers.



Operating with the cursor on the screen using the remote control

1. Press the ENTER/ESCAPE button to call the menu screen.
2. Move the cursor to Surround Setup and the ENTER/ESCAPE button.
3. Set the Sur. Mode to BY PASS.
4. When using a monaural source, select MONO. (Explanation 5, page 50)
5. Turn the Academy Filter on. (Explanation 6, page 50)
 - The Center Sp. setting in System Setup determines the speaker that will output the monaural sound. When Center Sp. is set to LARGE or SMALL, the sound comes from the center speaker; however, when Center Sp. is set to NONE, the sound is output from the front left and right speakers.

Using the Surround Modes

(Explanations)

```

** Surround Setup **
DOLBY
Sur. Mode = PRO LOGIC ◀▶
THEATER
Sur. Sp. Image = 1.0 ◀▶
Theater Size = 0.4 ◀▶
Effect Level = 1.2 ◀▶
Reverb Level = 1.2 ◀▶
Reverb Time = 1.6 ◀▶
Initialize ▶
    
```

Explanation 1: Surround speakers image

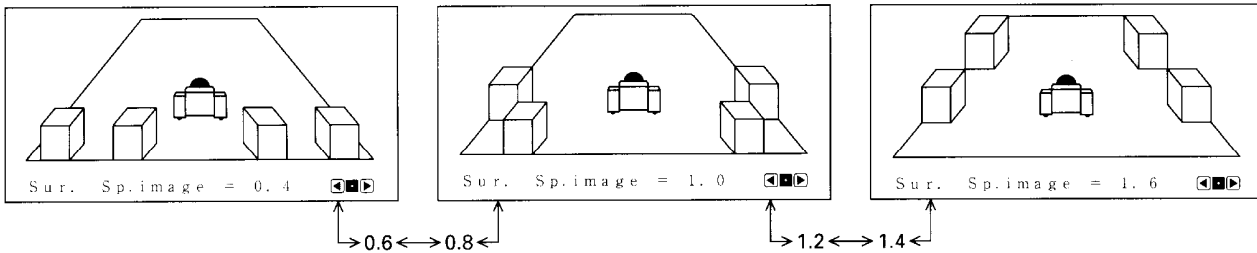
Simulate as if there were four Surround speakers. 7 patterns from 0.4 to 1.6 can be selected. The surround speakers mentioned here are referred to as Surround speakers in the movie theater, not the speakers connected to the main unit. The effects may differ according to the type of left and right surround rear speakers used and their positions.

On screen

Move the cursor on Surround Speakers and use the ◀ and ▶ CURSOR buttons to select surround speakers.

Main unit

1. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select Surround speaker.
2. Select the type of surround speakers using the ◀ and ▶ PARAMETER CONTROLLER buttons.



```

** Surround Setup **
DOLBY
Sur. Mode = PRO LOGIC ◀▶
THEATER
Sur. Sp. Image = 1.0 ◀▶
Theater Size = 0.4 ◀▶
Effect Level = 1.2 ◀▶
Reverb Level = 1.2 ◀▶
Reverb Time = 1.6 ◀▶
Initialize ▶
    
```

Explanation 2: Theater size, Hall size

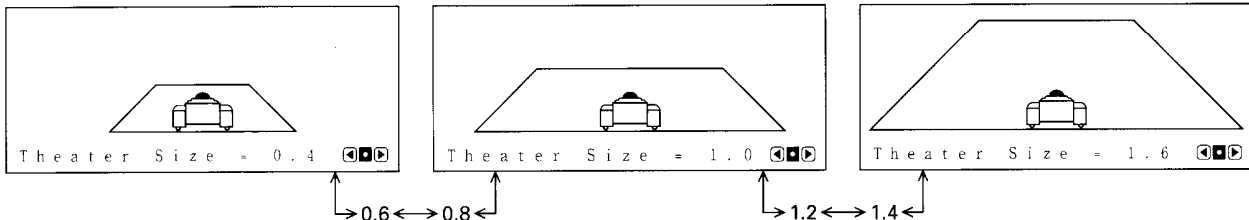
Theater mode simulates the atmosphere of a small or a large sized movie theater. Seven theater size can be selected, from 0.4 to 1.6. This figure gives the ratio of breadth to length.

On screen

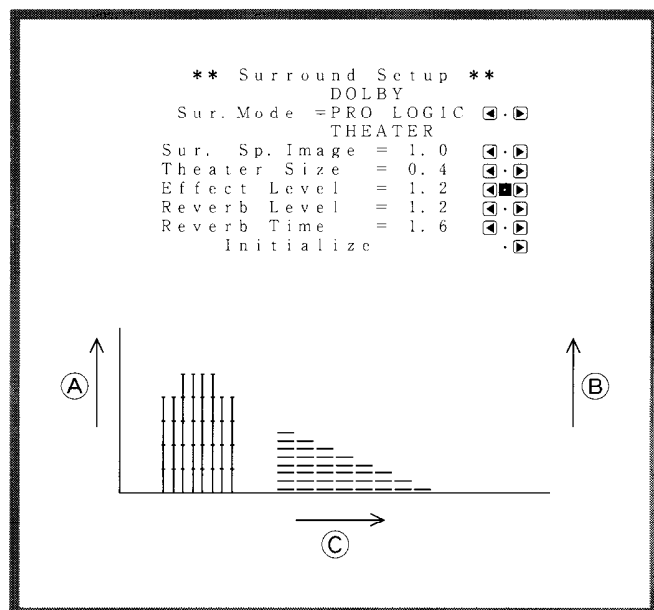
Move the cursor to Theater size and use the ◀ and ▶ CURSOR buttons to alter theater size.

Main unit

1. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select Theater size.
 2. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to alter the theater size.
- When using the Hall, Live, Arena and Studio surround modes, set the Hall size in the same manner used to set the Theater size.



Using the Surround Modes (Explanations)



Explanation 3: Effect level, Reverb level and Reverb time

By adjusting the level of the initial reflections and reverberation in sound from a recording, it is possible to create the illusion of actually being in a concert hall or movie theater without leaving your living room. By adjusting the effect level, reverb level and reverb time, it is possible to recreate the sonic environment of a concert hall or movie theater. For each parameter, you can set one of the seven levels between 0.4 and 1.6.

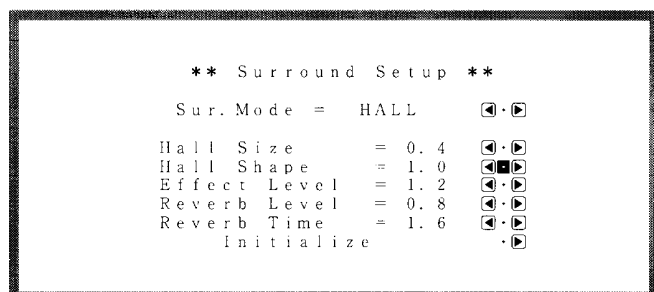
On screen

Move the cursor to Effect level (Reverb Level, Reverb Time) and use the ◀ and ▶ CURSOR buttons to adjust the level.

Main unit

1. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select Effect level (Reverb Level, Reverb Time).
2. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to adjust the level.

- A. Effect level: This parameter adjust the initial reflection level.
 B. Reverb level: This parameter adjust the level of only the reverb (not the initial reflections). Raising the level makes the mountain higher. (Refer to the illustration.)
 C. Reverb Time: This parameter adjust the time taken for the reverberation to decay completely. Lengthening the reverb time widens the base of the mountain.



Explanation 4: Hall shape

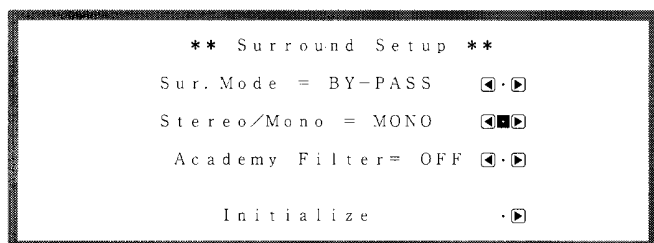
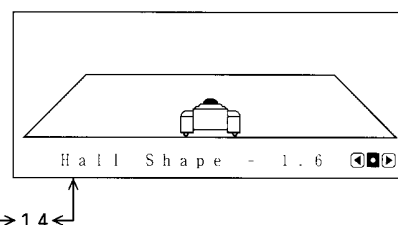
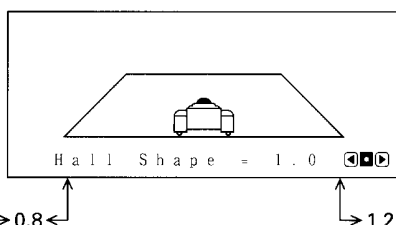
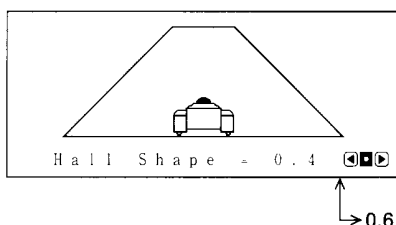
Simulates the shape of the concert hall. Seven Hall shape can be selected, from 0.4 to 1.6, 0.4 to 0.8 simulates rectangular shapes, 1.0 simulates a square shape and 1.2 to 1.6 simulate oblong shapes. The number is the ratio of hall breadth to length.

On screen

Move the cursor on Hall Shape and use the ◀ and ▶ CURSOR buttons to select the value.

Main unit

1. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select Hall Shape.
2. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to alter the hall shape.



Explanation 5: STEREO/MONO

This function can only be used when the Surround mode is set to BY-PASS.

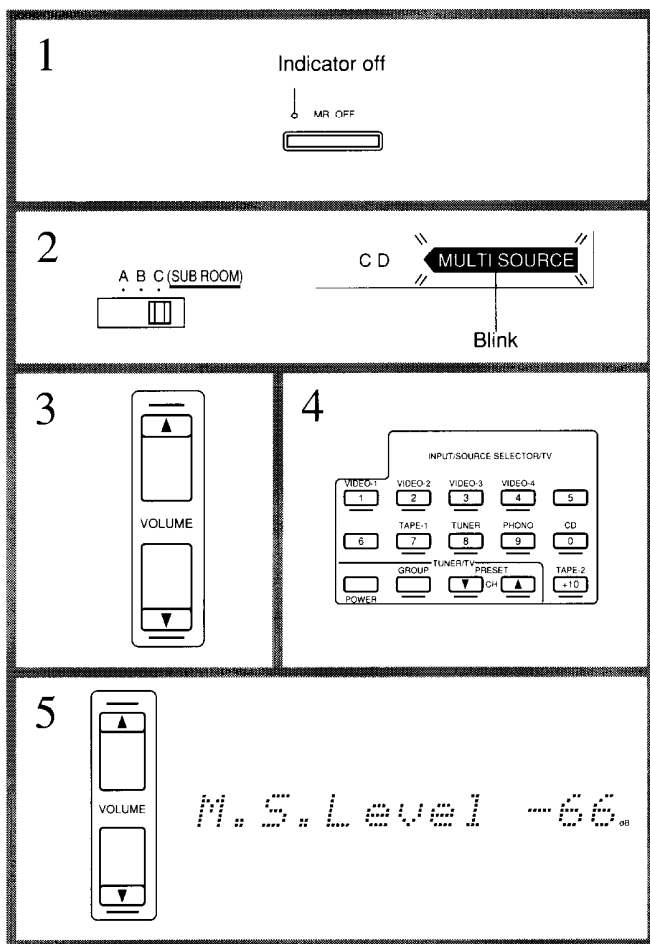
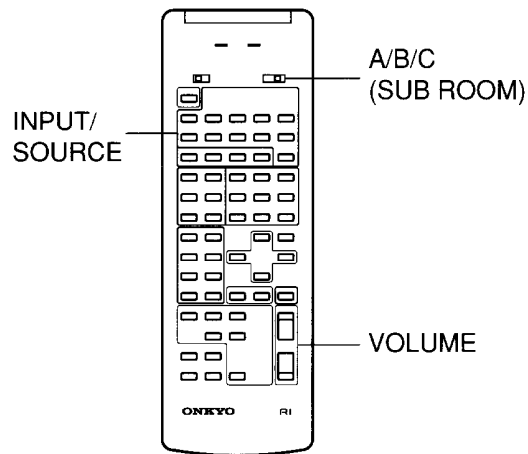
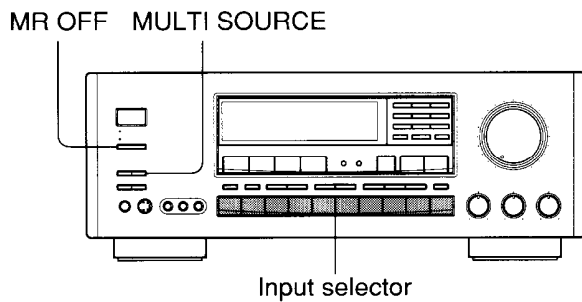
When the audio source is monaural (for example, when listening to an old movie or a voice on the TV) and the TX-SV828THX is set to MONO, the left and right signal is played from the center speaker. When the center speaker is not being used and the Center Sp. in System Setup is set to NONE, the combined sound of the left and right signals are output from both the left and right speakers.

Explanation 6: Academy filter

This function is only valid when the Surround mode is set to BY-PASS and the STEREO/MONO button is set to MONO. When the treble sounds in a monaural movie are extremely loud compared to the other ranges, this special feature will make the necessary compensations.

Multi-Room Remote Control

Refer to pages 18 through 19 for connection details.



Listening to devices connected to the TX-SV828THX in another room

In the main room:

1. Press the MR OFF button on the TX-SV828THX to make the indicator go off. (If the indicator is lit, the multi-room system cannot be used.)
2. Set the A/B/C (SUB ROOM) selector switch on the remote control to C (SUB ROOM).
Only buttons on the remote control with a blue line under them can be used.
3. Use the VOLUME ▼ button on the remote control to set the MULTI SOURCE level to its minimum (between -78 and -76 dB). The MULTI SOURCE level appears on the display.

In the sub-room, direct the remote control toward the Dinky Link or J-Box Receiver (Xantech system) or toward the Remote Sensor (Onkyo system) and:

4. Use the SOURCE buttons on the remote control to select your desired source and start playing it.
5. Use the VOLUME ▲/▼ buttons to adjust the volume to your desired level.

You can switch the sub-room source in the main room.

1. Press the MULTI SOURCE button on the main unit.
2. While the MULTI SOURCE indicator flashes, use the input selector buttons to select your desired source. (If an input selector button is pressed while the indicator is off, the main room source will change.)

Note:

If the A/B/C selector switch on the remote control is set to A or B and the MASTER VOLUME is adjusted, the volume level of the speakers in the main room will change, not the speakers in the sub-room.

If the remote controller is used from the sub-room, but the components cannot be controlled, check the following.

- Use the buttons and switches on the component in the main room to check whether it is working properly.
Then, use the remote control to check whether the component is working properly. If it is not, refer to page 6.
- When operating a component that does not display Onkyo's **RI** mark, check that the emitter is directed toward that component.
- Check that the components are correctly connected.
- Check that the MR OFF button on the TX-SV828THX is not turned on (the indicator should not be lit).

Trouble shooting guide

If a problem occurs, first operate the unit using the Front panel controls to confirm that it is not due to a malfunction (or worn out batteries) of the remote control.

Trouble	Cause	Remedy
No power.	- Power cord is disconnected. - There is external noise in the computer circuits of the TX-SV828THX. - AC fuse blown.	- Connect power cord. - Turn the power button off and then on again or remove the AC plug from the outlet. - Contact your ONKYO Service Center.
Power but no sound.	- TAPE-2 monitor switch is on. - Audio muting switch is on. - Bad/incorrect connections. - Amplifier protection circuitry has been activated. ('PROTECT' will be displayed.)	- Switch to off. - Switch to off with the remote control. - Check input leads, speaker leads, pin plugs, etc. - Contact your ONKYO Service Center.
No sound from the Center speaker, or very minimal sound.	- Speaker cord is removed. - Surround mode is set to HALL, LIVE, ARENA, STUDIO and BY-PASS. - Center level is set to the minimum. - Center Mode is set to NONE.	- Check the connection between the amplifier and the speaker. - When HALL, LIVE, ARENA or STUDIO is selected for the Surround mode, only effect sound will be output from the Center speaker. The sound level will be less compared to the sound level when the DOLBY PRO LOGIC HOME TXH CINEMA or THEATER is selected. - When the Surround mode is set to BY-PASS, no sound will output from the Center speaker. - Set the Center level to the appropriate volume. - Set Center Mode to SMALL or LARGE.
Hum, low-frequency noise.	- Poor or no input ground. - Poor or no phono motor ground. - The placement of the input/output cables on the Rear panel is incorrect.	- Check outer conductor of input plugs. - Check for proper ground connection. - Adjust the placement of the cable to reduce hum.
Howling when the volume is turned up.	Turntable and speakers are too close together.	Move them farther apart.
Rough or scratchy sound. High range is not clear.	- Stylus of pick-up is worn. - Stylus tip is dirty. - Treble control too high.	- Replace. - Clean. - Turn treble control down.
AM stations cannot be received.	AM loop antenna is not attached.	Connect the included AM loop antenna to the AM antenna terminals.
Buzzing noise on AM (particularly conspicuous at night or with weak stations).	Noise from electrical apparatus such as fluorescent lamp.	- Move the AM loop antenna to different position. - Set up an outdoor AM antenna.
High-pitched noise or buzzing noise on AM.	Noise from TV set.	- Place the AM loop antenna as far as possible from the TV. - Move unit away from TV set.
Crackling noise on AM, FM.	- Noise caused by turning fluorescent lamp on and off. - Noise from automobile ignition.	- Move antenna as far as possible from the fluorescent lamp. - Install an FM outdoor antenna as far as possible from the road. - Change the position or direction of the outdoor antenna.
FM tuned and stereo indicators light but sound is distorted and stereo separation is bad.	- Station is too strong. - Multiple reflection of the radio waves because of tall buildings or mountains.	- Change to T-shaped antenna. - Use antenna which has better directivity and select a point where the distortion is least.
FM tuned Indicators and STEREO indicator flicker and hiss is heard on FM.	- Station is too weak. - Stereo FM broadcasts cover only about half the distance of an ordinary broadcast.	- Install an outdoor FM antenna. - Change the position or direction of the outdoor antenna.
No station is recalled when a preset button is pressed.	The power cord has been unplugged for a long time.	The memory contents are lost. Store all stations again.
The Multiple Room Remote System does not operate.	- Connection is wrong. - The MR OFF button on the TX-SV828THX is engaged. (The MR OFF indicator will be lit.)	- Check the connection again. - Press the MR OFF button. (The MR OFF indicator will be turned off.)
Front panel controls function but remote control does not.	- No batteries in remote control. - Batteries have worn out.	- Insert batteries. - Replace batteries.
Also refer to the respective instruction manuals of the Video Disc Player, video cassette recorder, TV monitor, etc., being used.		

Trouble shooting guide

NOTE:

The tuning steps by which the tuned frequency changes on each band have been set at the factory to the proper value for the country where each unit is to be sold. If you use the unit in a country where a different tuning step is required or if the broadcast frequencies in your country change so that you can not tune in radio stations precisely, contact your authorized ONKYO Service Center.

This device employs a microcomputer to perform various functions and operations. If interference generated by an external power supply, radio waves, or other electrical source results in an accident which causes the specified operations and functions to operate abnormally. To perform a reset, please follow the procedure below.

1. Press and hold down the VIDEO-1 button, then press the POWER button.
2. After "clear" is displayed, the preset memory and parameters stored in the memory, such as surround, are initialized and will return to the factory settings.

Problem with the RC-307M remote control

If the remote control does not operate,	● First, try operations using the buttons of the main unit for each function. If operation is not possible, the fault is in the main unit and not the remote control. ● If the batteries are weak, replace the batteries.
The buttons of this remote control cannot be memorized or some remote control functions cannot be memorized.	● This remote control uses an infrared ray system and most functions can be memorized. However, there may be some instances where memorization is not possible or some remote control functions cannot be memorized due to the output method.
It is difficult to memorize functions using the buttons of this remote control, and even when a function has been memorized, operation is incorrect.	● The RC-307M is not aimed directly at the other remote control, or the distance between the two units is out of range. Confirm that these two factors are correct. ● Confirm whether the batteries of your existing remote control are weak. (If the batteries are weak, it may be impossible to operate a function or to memorize functions. Insert new batteries and try again.) ● The RC-307M remote control uses an infrared ray system and most functions can be memorized. However, there may be some instances where memorization is not possible or some remote control functions cannot be memorized due to the output method of the other remote control.
The functions of the television, video, etc., memorized into this remote control do not operate properly with the buttons.	● Make sure the functions memorized correspond to the characters or marks on the buttons. The functions will operate as memorized, without relation to the characters or marks on the button. ● If the batteries are weak, it may be impossible to memorize functions. Insert the indicated type of batteries into your existing remote control and into this remote control, and try memorizing the code once again. (Make sure the new batteries are the correct type indicated for the equipment.)
If the operable distance of the RC-307M is shorter than that of the existing remote control, or if the reaction time of the machine is slow when using the RC-307M.	● The operable distance of this remote control and your existing remote control are different. In this case, it may happen that the operable distance is shortened. ● Try memorizing once again, making sure you are memorizing at an appropriate distance. ● Check that the batteries are not weak. ● It may be simply that the correspondence between the unit and machine is slow.
The codes memorized by the button of RC-307M have been "forgotten".	● If the batteries are taken out of the unit for more than one hour, memorized codes will be lost. In this case, please memorize the codes once again.

Questions	Answers
Q : I cannot get On-screen graphics on my TV/Monitor.	A : Make sure you have a single RCA video cable running from the monitor out on the back of the TX-SV828THX going to the EXT. 1 or video-1 input of your TV/Monitor. You must make the input selection at the TV/Monitor. (Many customer assume that the TX-SV828THX will switch the TV/Monitor mode automatically).
Q : How do I get just my TV sound through my stereo?	A : On the back of your TV/Monitor you should see AUDIO OUT LEFT and RIGHT RCA jacks. Run a standard RCA cable from those outputs to VIDEO-1 input on the TX-SV828THX. Do not use the Phono input.
Q : Why is there no sound coming from my unit? It worked fine yesterday and there is some music faintly in the background.	A : Check to see that the tape 2 monitor button is not engaged.

Specifications

AMPLIFIER SECTION

Power output: **Stereo mode** (BY-PASS mode, H.P.F.: OFF)
LEFT and RIGHT channels
100 watts per channel min. RMS. at 8 ohms, both channels driven, from 20Hz to 20,000Hz, with no more than 0.03 % total harmonic distortion.
Continuous power 2 × 120 Watt at 8 ohms (DIN)
Surround mode
LEFT, RIGHT and CENTER channels
90 watts min. RMS. at 8 ohms 1,000Hz, with no more than 0.08% total harmonic distortion.
LEFT SURROUND and RIGHT SURROUND Channels
50 watts per channel min. RMS. at 8 ohms 1,000Hz with no more than 0.08% total harmonic distortion.

IM distortion: 0.03% at rated power
(LEFT and RIGHT)

Damping factor: 70 at 8 ohms (LEFT and RIGHT)

Input sensitivity/impedance: Phono: 2.5mV/50 kohms
Line (CD, TAPE 1 ~ 2, VIDEO 1 ~ 4): 200mV/50 kohms
Main in (LEFT, RIGHT, CENTER): 1V/50 kohms (100W output)
Main in (LEFT SURROUND, RIGHT SURROUND): 0.7V/50 kohms (50W output)
EXTERNAL DECODER INPUT (LEFT, RIGHT, CENTER, LEFT SURROUND, RIGHT SURROUND, SUBWOOFER): 200mV/50 kohms

Output level/impedance: Rec out (TAPE 1 ~ 2): 200mV/2.2 kohms
Out (VIDEO 2 ~ 3): 200mV/2.2 kohms
Pre out (LEFT, CENTER, RIGHT, LEFT SURROUND, RIGHT SURROUND, SUBWOOFER): 1V/470 ohms
Pre out (MULTI SOURCE): 1V/470 ohms

Phono overload: 120mV RMS. at 1,000 Hz, 0.5 % THD.

Frequency response: 20 to 30,000 Hz, +/-0.5 dB
(Tone defeat: on)

RIAA deviation: 20 to 20,000 Hz, +/-0.8 dB

Tone control: BASS: +/-10 dB at 100 Hz
TREBLE: +/-10 dB at 10,000 Hz

Signal-to-Noise ratio: PHONO: 80 dB (IHF A, 5mV input)
(Surround mode: BY PASS)
CD/TAPE: 100 dB (IHF A)

Muting: -∞dB

VIDEO SECTION

Television format: NTSC (USA and Canadian models)
NTSC/PAL (Other area model)

Input sensitivity/impedance
IN (VIDEO 1 ~ 4) VIDEO (Composite): 1Vp-p/75 ohms
IN (VIDEO 1 ~ 4) S-VIDEO (Y signal): 1Vp-p/75 ohms
IN (VIDEO 1 ~ 4) S-VIDEO (C signal): 0.28Vp-p/75 ohms

Output level/impedance
OUT (VIDEO 2 ~ 3, MONITOR OUT) VIDEO (Composite): 1Vp-p/75 ohms
OUT (VIDEO 2 ~ 3, MONITOR OUT) S-VIDEO (Y signal): 1Vp-p/75 ohms
OUT (VIDEO 2 ~ 3, MONITOR OUT) S-VIDEO (C signal): 0.28Vp-p/75 ohms

TUNER SECTION

FM:
Tuning range: 87.50 – 108.00 MHz (50 kHz steps)
Usable sensitivity: Mono: 11.2 dBf, 1.0 μV (75 ohms)
Stereo: 17.2 dBf, 2.0 μV (75 ohms)
Mono: 17.2 dBf, 2.0 μV (75 ohms)
Stereo: 37.2 dBf, 20 μV (75 ohms)
50 dB quieting sensitivity: 1.5 dB
Capture ratio: 40 dB (USA and Canadian models)
Image rejection ratio: 85 dB (European model)
90 dB
IF rejection ratio: Mono: 76 dB
Signal-to-Noise ratio: Stereo: 70 dB

Alternate channel
Attenuation: 55 dB
AM suppression ratio: 50 dB
Harmonic distortion: Mono: 0.1%
Stereo: 0.2%
Frequency response: 30 – 15,000 Hz ± 1.0 dB
Stereo separation: 45 dB at 1kHz
30 dB at 100 – 10,000 Hz
Muting level: 17.2 dBf

AM:
Tuning: USA and Canadian models
530 – 1710 kHz (10 kHz steps)
European models
522 – 1611 kHz (9 kHz steps)
Usable sensitivity: 30 μV
Image rejection ratio: 40 dB
IF rejection ratio: 40 dB
Signal-to-Noise ratio: 40 dB
Harmonic distortion: 0.7%

GENERAL
Power supply: USA and Canadian models
AC120V, 60 Hz
European models
AC 230V, 50 Hz
Dimensions (W x H x D): 455 × 170 × 389 mm
(17-15/16" × 6-15/16" × 15-5/16")
Mass: 15 kg (33 lbs.)

REMOTE CONTROL RC-307M
Transmitter: Infrared
Signal range: Approx. 5 meters (16ft.)
Power supply: four "AAA" batteries (1.5V × 4)

Specifications and features are subject to change without notice.

ONKYO CORPORATION

ONKYO CORPORATION

Sales & Product Planning Div.: 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572, JAPAN
Tel: 0720-31-8111 Fax: 0720-33-5222

ONKYO U.S.A. CORPORATION

200 Williams Drive, Ramsey, N.J. 07446, U.S.A.
Tel: 201-825-7950 Fax: 201-825-8150

ONKYO EUROPE ELECTRONICS GmbH

Industriestrasse 18-20, 82110 Germering, GERMANY
Tel: 089 84 93 20 Fax: 089 84 93 226

ONKYO FRANCE

Immeuble Le Diamant, Domaine Technologique de Saclay, 4 Rue René Razel,
91892 SACLAY, FRANCE Tel: (1) 69 33 14 00 Fax: (1) 69 41 35 84

